

SIEMENS



CFMS2015

**1/3" IP Fix Dome Camera, 2 MP,
D/N**

Configuration

1 Copyright

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2 About this document

2.1 Content of document

This document contains information on the configuration of the product.

2.2 Meaning of symbols

Orientation guide

[-> 3]	Cross-reference
Save	Button
<Ctrl>	Key
	Tips and information

2.3 Contact

Contact information

If you have questions or suggestions regarding the product or this documentation, please contact our Technical Competence Center.

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Siemens AG provides training courses for all products.

2.4 Target group

Commissioning personnel	<ul style="list-style-type: none"> ● Configure the product at the place of installation according to customer-specific requirements. ● Check the product operability and release the product for use by the operator. ● Searches for and corrects malfunctions. 	<ul style="list-style-type: none"> ● Has obtained suitable specialist training for the function and for the products. ● Has attended the training courses for commissioning personnel.
Operating personnel	<ul style="list-style-type: none"> ● Performs the procedures for proper operation of the product. 	<ul style="list-style-type: none"> ● No particular qualification required. ● Has received instruction from the operational startup personnel.

3 Safety

3.1 General safety precautions

- Read the general safety precautions before installing/configuring/operating the device.
- Follow all warnings and instructions marked on the device.
- Keep this document for reference purposes.
- This document must always accompany the product.

Liability claim

- Use only spare parts and accessories that have been approved by the manufacturer.

3.2 Transport

- Keep the packaging material for future transportation.
- Do not expose the device to mechanical vibrations or shocks.

3.3 Installation

- It is recommended that all preparatory work (e.g. fitting of accessories) be carried out in a workshop prior to final installation.
- The environmental conditions recommended by the manufacturer must be observed. See section 'technical data'.
- Do not operate the device close to sources of powerful electromagnetic radiation.
- The device should only be used for indoor applications.
- The mounting surface must be solid and non-combustible.

Danger of electrical shock/fire hazard/damage to the device due to incorrect connection

- Connect the device only to a power source that complies with SELV requirements and with the Limited Power Source requirements to EN 60950-1.

3.4 Maintenance

- Do not attempt to service or modify this device yourself. Refer this work to qualified service personnel.
- Do not use liquid cleaners or sprays that contain alcohol, spirit or ammonia.

3.5 Sensor characteristics

The following conditions may be observed when using a CMOS camera. These are inherent in the design and do not stem from any fault in the camera itself.

- Vertical smear:
This phenomenon occurs when viewing a very bright object.
- Patterned noise:
This is a fixed pattern, which may appear over the entire monitor screen when the camera is operated at a high temperature or in a low luminance environment.
- Jagged picture:
When viewing stripes, straight lines, or similar patterns, the image on the screen may appear jagged.

4 EU-directives

This product complies with the requirements of the following European directives.
The EU declaration of conformity is available to the responsible agencies at:

Siemens AG
Industry Sector
Building Technologies
76181 Karlsruhe
Germany

European Directive 2004/108/EC „Electromagnetic Compatibility”

Compliance with the European Directive 2004/108/EC has been proven by testing according to the following standards:

Emitted interference:	EN 61000-6-3
Interference resistance:	EN 50130-4

5 Technical data

Model	CFMS2025
Type	2 Megapixel, Day/Night IP Fix Dome
Image sensor	1/3" 1080p HD CMOS image sensor OV2715
Effective pixels	1920 (H) X 1080 (V)
Image compression method	H.264 / MPEG4 / MJPEG (Triple streaming)
Image frame rate	H.264 1080p @12 fps 720P, SXGA, VGA 25 fps
Service monitor	CVBS @ 25 fps for PAL

Electrical	
Synchronisation	Internal
Signal/noise ratio	> 50 db
Lens type	Varifocal 3 mm (W) - 9mm (T)
Horizontal viewing angle	93.0 - 31.7°
IR cut filter	Yes
Sensitivity	Colour: 0.5 lux (F1.2) 50 IRE B/W: 0.3 lux (F1.2) 50 IRE
White balance	ATW/Manual
Electric shutter	AES 1/25-1/10000 sec
Back-light compensation (BLC)	6 zones
Automatic gain control (AGC)	Yes
Audio codec	G.711
Audio feature	Two-way mono audio; full duplex
Alarm	Yes; 3x Alarm In & 1x Alarm Out
Motion detection	Yes; 1 MD window & 3 sensitivity levels
Privacy zone	8
Image enhancement	2 DNR

Power supply	
Power requirement	DC 12 V / AC 24 / PoE
Power consumption	5.5 W
Power connector	Terminal block
Environment	
Environmental operating temperature	0 – 50°C
Operating humidity	0 – 80% RH
Storage temperature	-20 to +60°C

Network	
Web browser	IE 6.0 above/ Firefox, Safari with VLC plug-in (VLC version 0.9.6 or above)
Security	Firewall / forbidden protocol / 802.1x
Ethernet	1 x 10/100 base-T Ethernet connection for LAN
Internet protocol	TCP/IP, UDP, HTTP, HTTPs, SMTP, SNMP, DNS, DHCP, NTP, ARP, ICMP, FTPc, FTPs, DDNS, RTSP (RTP, RTCP), IGMP v3, UpnP, CIFS, NFS, IEC802.1x, ONVIF

Network	
Connections	RJ-45 for Ethernet 10BaseT/100BaseTX (PoE) Power connector (terminal block type) Terminal block for 3 alarm inputs, 1 output

I/O Connector	
Network port	RJ45 with LED's
Audio IN/OUT	Spring type
Video output	2-pin connector

Mechanical	
Protection rating	NA
Resistance to shock	NA
Dimensions (DxH)	126 mm x 115 mm
Weight	480 g

6 Details for ordering

Type	Order No.	Designation
CFMS2025	S54561-C93-A5	1/3" IP Fix Dome, 2 MP, Day / Night

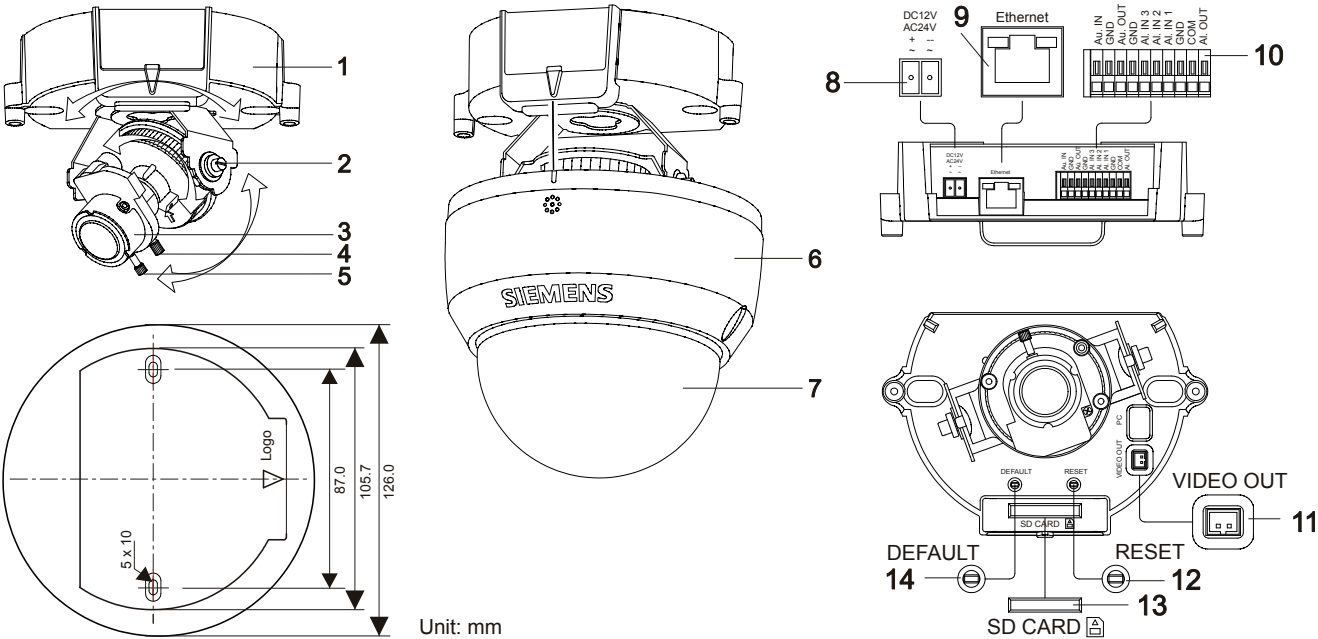
Further products and accessories can be found in the internet:
www.siemens.com/securityproducts

6.1 Package contents

- IP camera
- Video cable
- 2 anchors
- 2 screws
- Template
- 2 GB SD card (in box)
- Installation instruction
- Utilities CD (including software and documentation)

7 Camera part and connector definition


7.1 Camera part definition




1	Camera base	8	Power supply port
2	Adjusting mechanism	9	Ethernet connector
3	Lens	10	I/O terminal
4	Focal length ring	11	Video output
5	Focus ring	12	Reset button
6	Camera housing	13	SD card
7	Dome cover	14	Default button

7.2 Connector pin definition

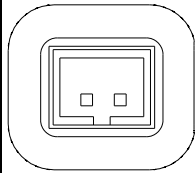
7.2.1 Digital I/O terminal

	Au. IN	Audio in
	GND	
	Au. OUT	Audio out
	GND	
	AI. IN 3	Alarm in
	AI. IN 2	
	AI. IN 1	
	GND	
	AI. COM	Alarm out
	AI. OUT	

7.2.2 Power terminal

	White: Power -	DC 12 V / AC 24 V power terminal
	Black: Power +	

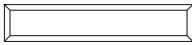

7.2.3 Video out connector

	Video Signal Output	Composite video output
---	---------------------	------------------------

7.2.4 Default/Reset buttons

DEFAULT 	RESET 	DEFAULT	Return to factory default by pressing button (after 5 Sec)
		RESET	System restart


7.2.5 SD card

 SD CARD 	SD CARD	To record images when alarm events happen.
--	---------	--

8 Installing the camera

8.1 Precautions

8.1.1 SD memory card

	NOTICE
	Please install the SD memory card before switching on the camera. The system cannot detect an SD card that is inserted during operation.

- The camera supports SD and SDHC cards.
- Physical interface: Part 1. Physical Layer Specification; Version 1.01.
- Images may not be recorded or read correctly if an unsupported SD card is used with the camera.
- A SD card can be used for loop recording of images. The life-span (number of re-writes possible) of a SD card depends on its capacity. For loop recording, it is recommended to use a large-capacity SD card.
- Do not use a card containing the data recorded by another device with the camera as this may result in the camera not functioning correctly.
- Do not modify or overwrite the data, or change the folder name of a SD card. This may result in the camera not functioning correctly.
- Data recorded with the camera does not comply with the image file format Exif and the DCF standard. If the SD card is to be removed to play images, use a personal computer for this purpose. Other devices may not be capable of displaying the images.
- Use only new SD cards that were delivered by the manufacturer.

8.1.2 Power supply

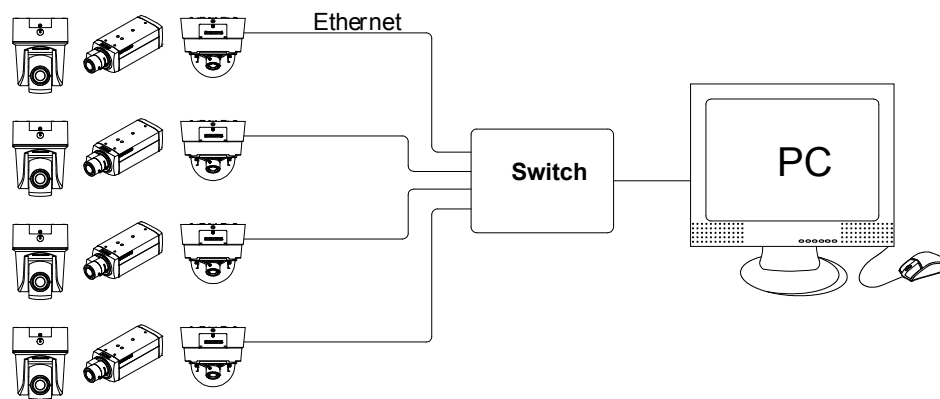
Be sure to use only a suitable power adapter. Using the wrong type of power adapter may cause the camera to malfunction, heat up, or catch fire. Before using the power adapter, carefully read and observe the Work safety information and the notes below.

- Do not allow the connectors on the power adapter to come into contact with any other metal objects as this may result in short-circuit.
- To connect the power adapter, firmly insert the plug end of the cable into the power terminal. Do not insert the plug into other jacks as this may cause malfunctioning.
- When removing the connection cable, disconnect it by pulling the plug. Do not pull on the cable.
- Do not drop the power adapter or subject it to strong impact.
- Do not use the power adapter in hot and humid places.
- Temperature increase on the surface of the adapter is normal. Before moving the adapter to another location, unplug it from the wall outlet, and wait until its temperature decreases.
- Buzzing noises may come from inside. This does not indicate malfunction.
- Using the power adapter near a radio, TV, or cell phone may cause interference. Use the adapter at sufficient distances from these devices.

8.2 Concept of the network camera

The network camera can deliver video images and audio in real time using the Internet or an intranet. The camera is equipped with Ethernet (RJ-45) 10BASE-T/100BASE-TX network interfaces.

It can be used in various indoor environments.



8.3 Setting network camera environment

Items needed for network camera monitoring system

- Administrator's personal computer
The personal computer that is given all authorities for setting, operating, monitoring and other functions with the network cameras is called the "administrator's personal computer" in this manual.
- PC requirements
 - Windows Vista or XP as OS
 - Internet Explorer Version 6.0 (or higher) or Safari or Mozilla FireFox
 - CPU: Intel Pentium 4,2 GHz or higher
 - Memory: 1 GB or more
- Network camera
Please purchase the appropriate number of cameras required for your application.
- Connection equipment such as a hub and router suiting the network system environment, as well as a LAN cable (Cat 5e cable is recommended).
- Camera search application "Webcam IP-Finder"
Install this application from the CD-ROM supplied as an accessory.
 1. Double-click "ipfinder_Setup.exe" in the CD-ROM
 2. install the application following the instructions on the screen

8.4 Connecting the camera and personal computer via network

IP address

To connect to the network, the administrator needs to set the network camera IP address.

There are two options to set the IP address.

- Entering an IP address manually (factory default)

- Obtaining an IP address automatically from the DHCP server

Entering the IP address manually.

Your camera is set to this mode at the factory with IP address 192.168.0.10, so you need to enter this IP address manually to access the camera for the first time.

Obtaining an IP address automatically from the DHCP server

If your network uses a DHCP server, you do not need to change the IP address of the camera. To activate this function, the option DHCP must be selected in the "Network/Basic Settings".



The IP address of the network camera can be changed from time to time when the DHCP server is used. For this reason, it may not be possible to connect a network camera due to an IP address change if the network camera is accessed using the previously set IP address.

To enable accessing the network camera in this case, a fixed IP address needs to be assigned manually to the network camera. Make sure to read the instruction manuals for the network equipment, as well as the manuals for the router, hub and modem.

To manually select the basic network settings, "Manual" must be selected and the IP address, subnet mask, default gateway, primary DNS and secondary DNS have to be entered.

Connection configuration

There are two configuration options for connecting network cameras:

- Crossover connection
- Connection via a hub, switch, or router



You do not need to assign an IP address to a hub.

The default IP address of your camera is 192.168.0.10. Set the IP address of your personal computer in the same subnet. (The network segment must be the same segment when directly connecting using a cross-over cable or connecting via the hub). When connecting more than one camera, connect the cameras one by one and assign an unused IP address to each one.

You can also use the LAN port of your broadband router. However, when using the broadband router while the DHCP server function is enabled, turn on the power after connecting the camera to the router. The camera gets the IP address from the router's DHCP server. The IP address will not be 192.168.0.10.

For more information, refer to the user documentation for your computer.

Connecting camera and personal computer

1. Connecting the LAN cable
Connect the LAN cable (straight cable) to the camera and to the hub.
Alternatively, connect the camera to a personal computer using the LAN cable (cross-over cable).
2. Turning Power on
Connect AC 24 V to the power terminal.

Setting the IP address of the personal computer.

- Use a free IP address (other than 192.168.0.10, which is the camera's IP address).
- For example., set the IP address to 192.168.0.20 (and the subnet mask to 255.255.255.0).

- For details on the procedure, refer to the user guide for the personal computer.

Testing the camera connection using ping.

- Start a command prompt. Type "ping 192.168.0.10" and press "Enter".

⇒ If the "Reply from..." message appears, the connection is correctly established.

Search for the camera using the "Webcam IP Manager" and view a camera image. See Section 6.5.

1. Start "Webcam IP Manager" and click "Search".
2. Check whether the camera name "nwcam05" is displayed in the camera list.
3. Click "nwcam05" to select the camera.
 - ⇒ The camera name, IP address and HTTP port number are displayed in the "Network Camera Lists" field.
4. Double-click the camera you wish to log in to in the camera list.
 - ⇒ The screen for entering the user name and password will appear.
5. Enter the administrator log-in ID and password. See "Login dialog".
 - ⇒ A camera image screen of the network camera will appear.



To view images without using "Webcam IP Manager," launch the Internet browser, enter URL <http://192.168.0.10/> in the address box and press "ENTER."

It takes about 10 seconds to activate the camera.

If a port number other than "80" is set, enter the port number after ":" as in <http://192.168.0.10:88>.

8.5 Using the camera search application "Webcam IP Manager"

The "Webcam IP Manager" is an application for searching for network cameras that can currently be viewed from the administrator's personal computer or a user's personal computer.

Setting up "Webcam IP Manager"

1. Insert the CD in the CD-ROM drive of the personal computer.
2. Double-click the "ipfinder_Setup" file in the CD-ROM and install "Webcam IP Manager" in accordance with the instructions on the screen.



IMPORTANT

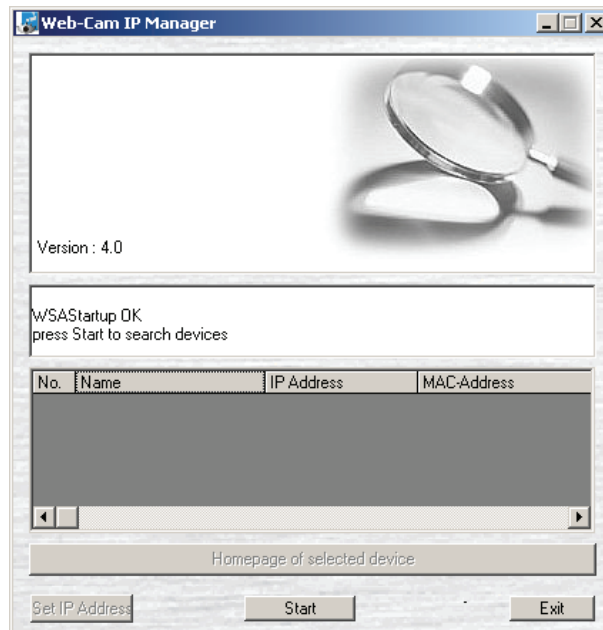
"Webcam IP Manager" is compatible only with Windows Vista and Windows XP. Glitches may occur on your personal computer if it is run with another operating system. Do not install "Webcam IP Manager" with other operating systems.

Using "Webcam IP Manager" to search for a camera



Set the personal computer to "Administrator authorization" when using "Webcam IP Manager".

1. Select "Start" > "Programs" > "Webcam IP-Finder".



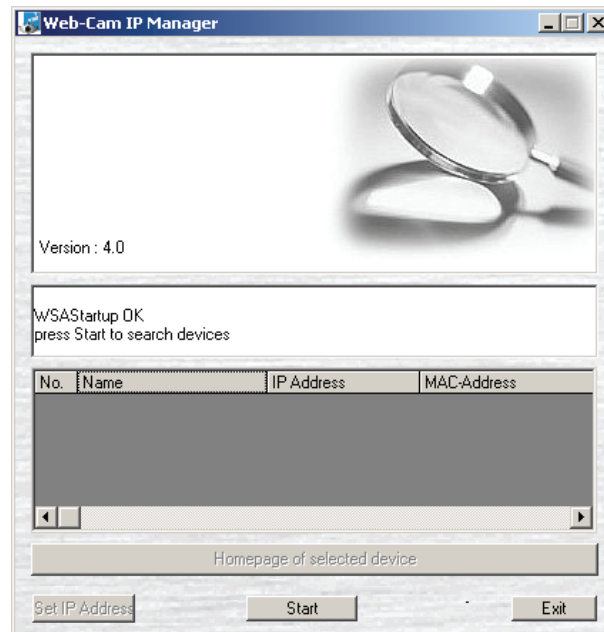
2. Start "Webcam IP Manager" and click "Search".
 - ⇒ All the cameras currently connected to the network will be displayed. To exit the program, click "Exit".
3. Select the camera you want to log in to in the list of cameras and double-click it.
 - ⇒ The selected camera name and IP address are displayed in the network camera login fields.
4. Log in to the selected camera as an administrator. (See "Login dialog")
 - To exit without logging in, click "Exit".

SSDP (Simple Service Discovery Protocol / network protocol)

▷ Prerequisite:

The Web-Cam IP Manager and all devices are located in the same network segment. If a device and the Web-Cam IP Manager are not located in the same network segment, you must ensure that the associated gateway (router) passes the SSDP multicast messages sent by the Web-Cam IP Manager on to the network segment where the device is located.

1. Start the Web-Cam IP Manager by loading IP Manager.exe. This application is found on the CD included with delivery.
 - ⇒ The Web-Cam IP Manager program window will open:



2. Click "Start".

⇒ The Web-Cam IP Manager program window will now display a list of all the devices available for communication along with their IP and MAC addresses. Each device's IP address or MAC address is unique.

3. Select the camera whose home page you want to access.

4. Click "Home page of selected device".

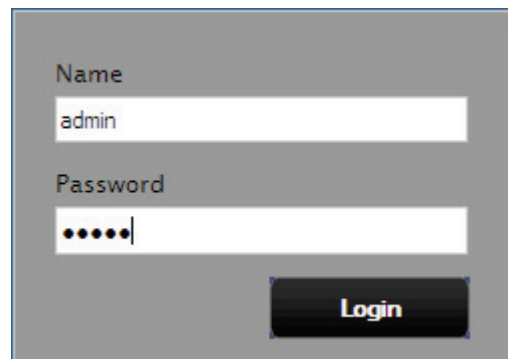
⇒ The home page of the selected camera will appear. See Section 6.8 Components of the unit home page.

8.6 Login dialog



The content of the following chapters is based on the assumption that Microsoft Internet Explorer IE 6.0 or higher has been installed.

A person who has logged in as an administrator can perform all functions.



Administrator login

1. Search for the camera using the "Webcam IP-Finder", double-click the camera you wish to log in to.

⇒ The login dialog will appear.

2. Enter the administrator login ID and password in the "Name" and "Password" fields, respectively and click "Login".
The administrator login ID and password are "admin" and "admin" by default.
- ⇒ The camera image screen will appear.



IMPORTANT

The administrator login allows rewriting of all settings. Make sure to change the de-fault administrator login ID and password to ensure camera security. Keep the new administrator login ID and password handy for future use. Information on how to change the administrator login ID and password can be found in Section "Access protection".

8.7 Viewing and listening

Images of the network camera can be viewed using the Internet browser of your personal computer.

▷ **Preparations before displaying**

Enable cookies

Set "Browser setting when proxy server is used".

Change "Security" in the Internet options as follows.

1. Click "Tools" on Toolbar
 2. Click "Internet Options"
 3. Select the "Security" tab.
 4. Click on "Intranet" if the camera to be operated is inside the intranet, click on "Internet" if the camera is on the Internet.
 5. Click "Level customize."
 6. Activate the following radio buttons in the list displayed:
 - "Enable" for "ActiveX control and plug in execute"
 - "Enable" for "Execution of script of ActiveX control marked safe even when script is executed"
 - "Enable" for "Download of signed ActiveX control "
 7. Click "OK."
 8. Login to the camera.
- ⇒ Your browser will be launched and the camera login screen will appear.
See Section "Login dialog" for the login method.
When the security warning screen (VeriSign) appears on the first use of the system, click "Yes."



Administrator authorization is needed to install "Active-X control." Install "Active-X control" after changing the personal computer setting to "Administrator authorization."

Browser settings when proxy server is used

If a proxy server is used, setting the browser to bypass the proxy server during communication with the network camera is recommended.

1. Launch the browser.
 2. Click "Tools" on Toolbar
 3. Select "Internet options".
 4. Select the "Connect" tab.
 5. Click "LAN Setting."
- ⇒ The screen for setting a local area network (LAN) will appear.
- ▷ If the checkbox "Will use a proxy server" is not marked:
- The browser is not set to use a proxy server. Click "Cancel" and quit setting.
- ▷ If the checkbox "Will use a proxy server" is marked:
1. Click "Detail setting."
- ⇒ A proxy setup screen will appear.
2. Enter the IP addresses of the network cameras in the fields marked "Do not use the proxy server with addresses started with the following".
 3. Click "OK."

When Windows XP SP2 is used: Click "Install" for "Active-X control."

All browsers except the IE can only be used for image viewing and compression setting.

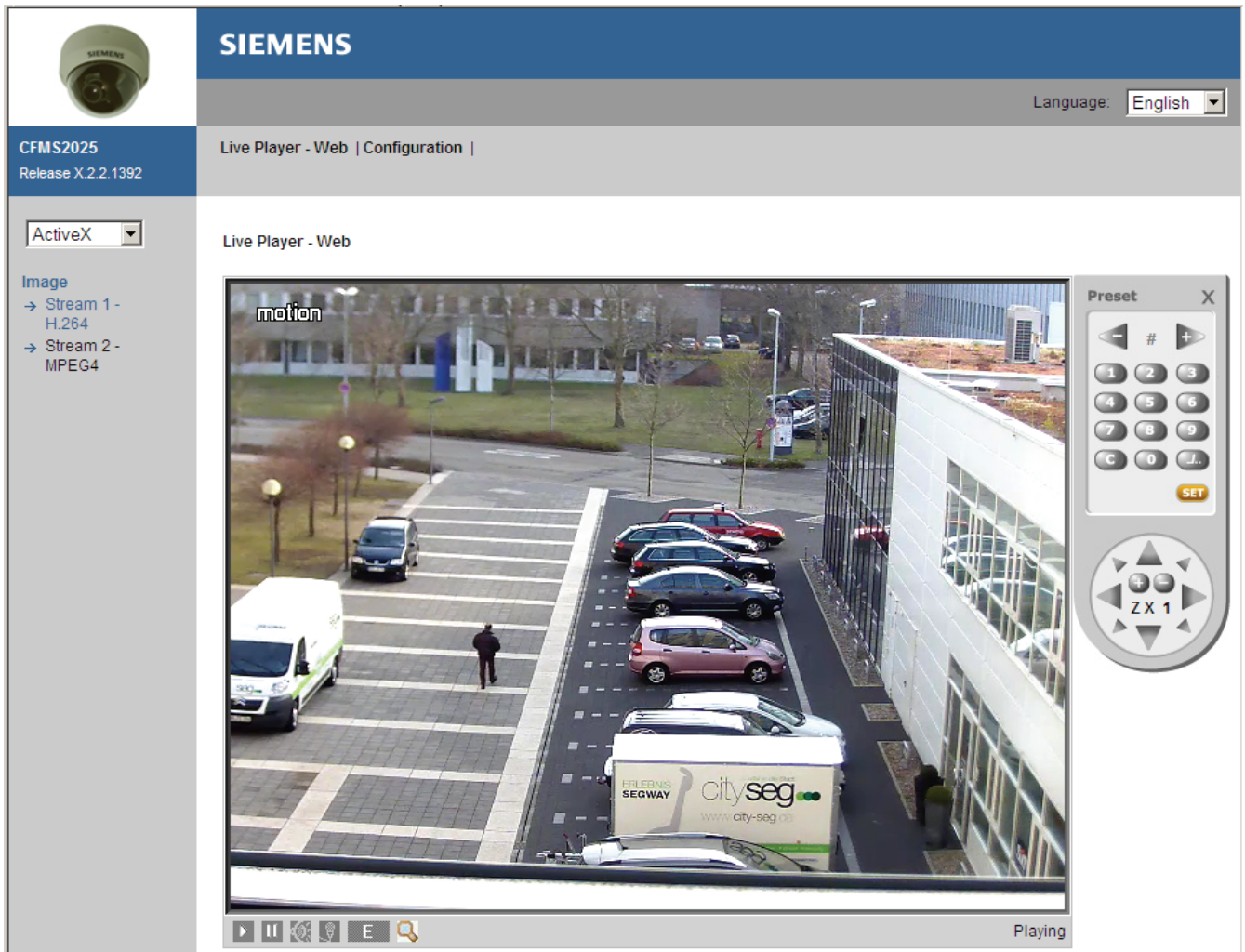


A proxy server protected by a firewall sometimes cannot be connected to the network camera. Consult the network administrator to avoid impacts on network camera operations.

Communication with the network cameras via a proxy server may cause problems. Install the network cameras after consulting with the network administrator.

If the network cameras are used in conjunction with a proxy server, it may take some time for the images to be displayed after a login, or the frame rate of the delivered images may be reduced.

All browsers except the IE only support image viewing and compression setting.



When using Windows XP SP2

If the camera image screen is not displayed, proceed as follows.

1. Select "Pop-up Blocker" on the toolbar.
2. Select "Always Allow Pop-ups from This Site..."

Components of unit home page

OSD: displays camera name, date and time.

Play: shows the live image

Pause: pauses the live image

Speaker: On/Off

Microphone: On/Off

Language: standard setting is English. The website supports 5 different languages.

Image streams 1, 2 & 3: Triple streams 1, 2 & 3 are available for selection. H.264, MPEG4 & JPEG, but only one JPEG available for the streams.

E-zoom: PTZ control, preset settings and more.


8.8 Resolution

There are different kinds of resolution depending on the function selected for the network camera.

Item	No.	Limitation				
Resolution	1	If you choose VGA for stream 1, you have to choose between SVGA , VGA and QVGA for the other streams. The resolution of the streams should be in the same group.				
		Group 1 (VGA)	SVGA	VGA	QVGA	
		Group 2 (D1)	D1	CIF	2CIF	4CIF
		Group 3 (1080p)	1080p			
		Group 4 (SXGA)	SXGA	VGA	QVGA	
		Group 5 (720p)	720p	D1		
	2	The resolution of stream 3 follows stream 1 or stream 2				
Cropping	1	Cropping and E-zoom are mutually exclusive.				
	2	Cropping stream source is based on the largest resolution of normal streams.				
	3	Total stream count with cropping is limited. Ex: If resolution is in group 1, total maximum number of normal and cropping stream is 8.				
		Group 1 (VGA) (except SVGA)		8		
		Group 2 (D1)		6		
E-zoom	1	Cropping and E-zoom are mutually exclusive.				
	2	Only resolution in group 1 (except SVGA) and normal stream number less than 2 (including number 2) can own E-zoom feature.				
OSD & Mask zone	1	Regular features of normal streams				

9 Configuration

9.1 Compression



SIEMENS

Language: English

CFMS2025
Release X.2.2.1392

Live Player - Web | Configuration |

Configuration
 → Compression
 → Network Settings
 → Image Parameters
 → Alarm
 → Record
 → Audio
 → Date/Time
 → Access Protection
 → Firewall
 → System
 → Log
 → Notice

Compression

Stream 1

Image Mode	H.264
Resolution	VGA
Frame Rate	25 fps
Rate control mode	<input type="radio"/> Variable bitrate <input checked="" type="radio"/> Constant bitrate
Compression Ratio	Standard
Quality Value	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="flex-grow: 1; border-bottom: 1px solid black; position: relative;"> <div style="position: absolute; left: 0; top: -5px;">◀</div> <div style="position: absolute; right: 0; top: -5px;">▶</div> </div> <div style="border: 1px solid black; width: 40px; text-align: center; margin-left: 5px;">16</div> </div> <div style="margin-left: 10px;">(1 ~ 31)</div>
Bit Rate	2M
GOP	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="flex-grow: 1; border-bottom: 1px solid black; position: relative;"> <div style="position: absolute; left: 0; top: -5px;">◀</div> <div style="position: absolute; right: 0; top: -5px;">▶</div> </div> <div style="border: 1px solid black; width: 40px; text-align: center; margin-left: 5px;">25</div> </div> <div style="margin-left: 10px;">(1 ~ 64)</div>
Profile	Main profile

Stream 2

Image Mode	MPEG4
Resolution	VGA
Frame Rate	25 fps
Rate control mode	<input checked="" type="radio"/> Variable bitrate <input type="radio"/> Constant bitrate
Compression Ratio	Standard
Quality Value	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="flex-grow: 1; border-bottom: 1px solid black; position: relative;"> <div style="position: absolute; left: 0; top: -5px;">◀</div> <div style="position: absolute; right: 0; top: -5px;">▶</div> </div> <div style="border: 1px solid black; width: 40px; text-align: center; margin-left: 5px;">16</div> </div> <div style="margin-left: 10px;">(1 ~ 31)</div>
Bit Rate	2M
GOP	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="flex-grow: 1; border-bottom: 1px solid black; position: relative;"> <div style="position: absolute; left: 0; top: -5px;">◀</div> <div style="position: absolute; right: 0; top: -5px;">▶</div> </div> <div style="border: 1px solid black; width: 40px; text-align: center; margin-left: 5px;">25</div> </div> <div style="margin-left: 10px;">(1 ~ 64)</div>

Stream 3

Image Mode	JPEG
Resolution	VGA
Frame Rate	25 fps
Compression Ratio	Standard
Quality Value	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="flex-grow: 1; border-bottom: 1px solid black; position: relative;"> <div style="position: absolute; left: 0; top: -5px;">◀</div> <div style="position: absolute; right: 0; top: -5px;">▶</div> </div> <div style="border: 1px solid black; width: 40px; text-align: center; margin-left: 5px;">50</div> </div> <div style="margin-left: 10px;">(3 ~ 90)</div>

Image mode

- 3 streams can be selected. Stream 1, stream 2 and stream 3 can be set to H.264, JPEG and MPEG4. No codec can be selected twice.
- All resolutions H.264, JPEG and MPEG4 are possible.

- Quality Value: When variable bit rate is selected as the rate control mode and customized mode in Compression Ratio, the quality value can be selected between 1 and 31.
 - Low: default is 31
 - Mid-low: default is 24
 - Standard: default is 16
 - Mid-high: default is 9
 - High: default is 1

H.264- The following settings are enabled when "Image Mode" is set to H.264

- Resolution
Configure the resolution. The higher the resolution the larger the image file.
Possible settings: SVGA, VGA, QVGA (when PC/VGA Resolution is selected)
D1, 2CIF, CIF, QCIF, 4CIF (when Video Resolution is selected).
- Frame rate: 7 frame rates can be selected (1, 2, 3, 5, 10, 12, 25)
- Rate control mode: you can choose between variable bit rate and constant bit rate.
- Compression Ratio
Set the quality of the delivered images. The size of the image files (H.264 files) depends on the compression ratio.
 - Quality value default: 31
 - Mid-low: 24
 - Standard: 16
 - Mid-high: 9
 - High: This setting produces lowest image quality. The file size decreases. Quality value is set to 1.
- Compression Ratio
Set the quality of the delivered images. The size of the image files (H.264 files) depends on the compression ratio.
 - Low compression: This setting produces the highest image quality. The file size increases.
 - Mid compression: Standard setting.
 - High compression: This setting produces the lowest image quality. The file size decreases. Only aktiv at "variable bitrate".
- Quality Value: When variable bit rate is selected as the rate control mode and customized mode in Compression Ratio, the quality value can be selected between 1 and 31.
 - When picture resolution is $\geq 720p$, the file size could be more than 4 MB.
- GOP: default is 25 (1 I frame plus 24 P frames). GOP can be selected between 1 and 64.
 - 25fps: GOP 1~64
 - 12fps: GOP 1~36
 - 10fps: GOP 1~30
 - 5fps: GOP 1~15
 - 3fps: GOP 1~9
 - 2fps: GOP 1~6
 - 1fps: GOP 1~3
- Profile: You can choose between Baseline, Main profile and High profile.

JPEG - The following settings are enabled when "Image Mode" is set to "JPEG".

- Resolution
Configure the resolution. The higher the resolution the larger the image file.
Possible settings : SVGA, VGA, QVGA (when PC/VGA Resolution is selected)
D1, 2CIF, 4 CIF, CIF, QCIF (when Video Resolution is selected)
- Frame Rate: 7 frame rates can be selected (1, 2, 3, 5, 10, 12, 25)
- Compression Ratio
Set the quality of the delivered images. The size of the image files (JPEG files) depends on the compression ratio.
 - Low: This setting produces highest image quality. The file size increases. Quality value is set to 90.
 - Mid-low: 70
 - Standard: 50
 - Mid-high: 30
 - High: This setting produces lowest image quality. The file size decreases. Quality value is set to 10.
 - Customized mode: Ratio, Quality value can be adjusted between 3 and 90.
- Compression ratio
Set the quality of the delivered images. The size of the image files (JPEG files) depends on the compression ratio.
 - Low compression: This setting produces the highest image quality. The file size increases.
 - Mid compression: Standard setting.
 - High compression: This setting produces the lowest image quality. The file size decreases.
- Quality Value: when Customized mode is selected in Compression Ratio, the quality value can be selected between 3 and 90.
 - Low: default is 31
 - Mid-low: default is 24
 - Standard: default is 16
 - Mid-high: default is 9
 - High: default is 1

MPEG4 - The following settings are enabled when "Image Mode " is set to "MPEG4".

- Resolution
Configure then resolution. The higher the resolution the larger the image file.
Possible settings : SVGA, VGA, QVGA (if PC/VGA Resolution is selected)
D1, 2CIF, 4CIF, CIF, QCIF (if Video Resolution is selected)
- Frame Rate: 7 frame rates can be selected (1, 2, 3, 5, 10, 12, 25)
- Rate control mode: You can choose between variable bit rate and constant bit rate.
- Compression Ratio
Set the quality of the delivered images. The size of the image files (JPEG files) depends on the compression ratio.
 - Low: This setting produces highest image quality. The file size increases. Quality value is set to 31.
 - Mid-low: 24
 - Standard: 16
 - Mid-high: 9
 - High: This setting produces lowest image quality. The file size decreases. Quality value is set to 1.

- **Compression ratio**
Set the quality of the delivered images. The size of the image files (JPEG files) depends on the compression ratio.
 - Low compression: This setting produces the highest image quality. The file size increases.
 - Mid compression: Standard setting.
 - High compression: This setting produces the lowest image quality. The file size decreases.
- **Quality Value:** When variable bit rate is selected as the rate control mode and customized mode in Compression Ratio, the quality value can be selected between 1 and 31.
 - Low: default is 31
 - Mid-low: default is 24
 - Standard: default is 16
 - Mid-high: default is 9
 - High: default is 1
- **Bit Rate:** 6 modes including 256 kb, 512 kb, 1M, 2M, 3M, 4M.
- **GOP:** default is 25 (1 I frame plus 24 P frames). GOP can be selected between 1 and 64.
 - 25fps: GOP 1~64
 - 12fps: GOP 1~36
 - 10fps: GOP 1~30
 - 5fps: GOP 1~15
 - 3fps: GOP 1~9
 - 2fps: GOP 1~6
 - 1fps: GOP 1~3

Cropping 1-5

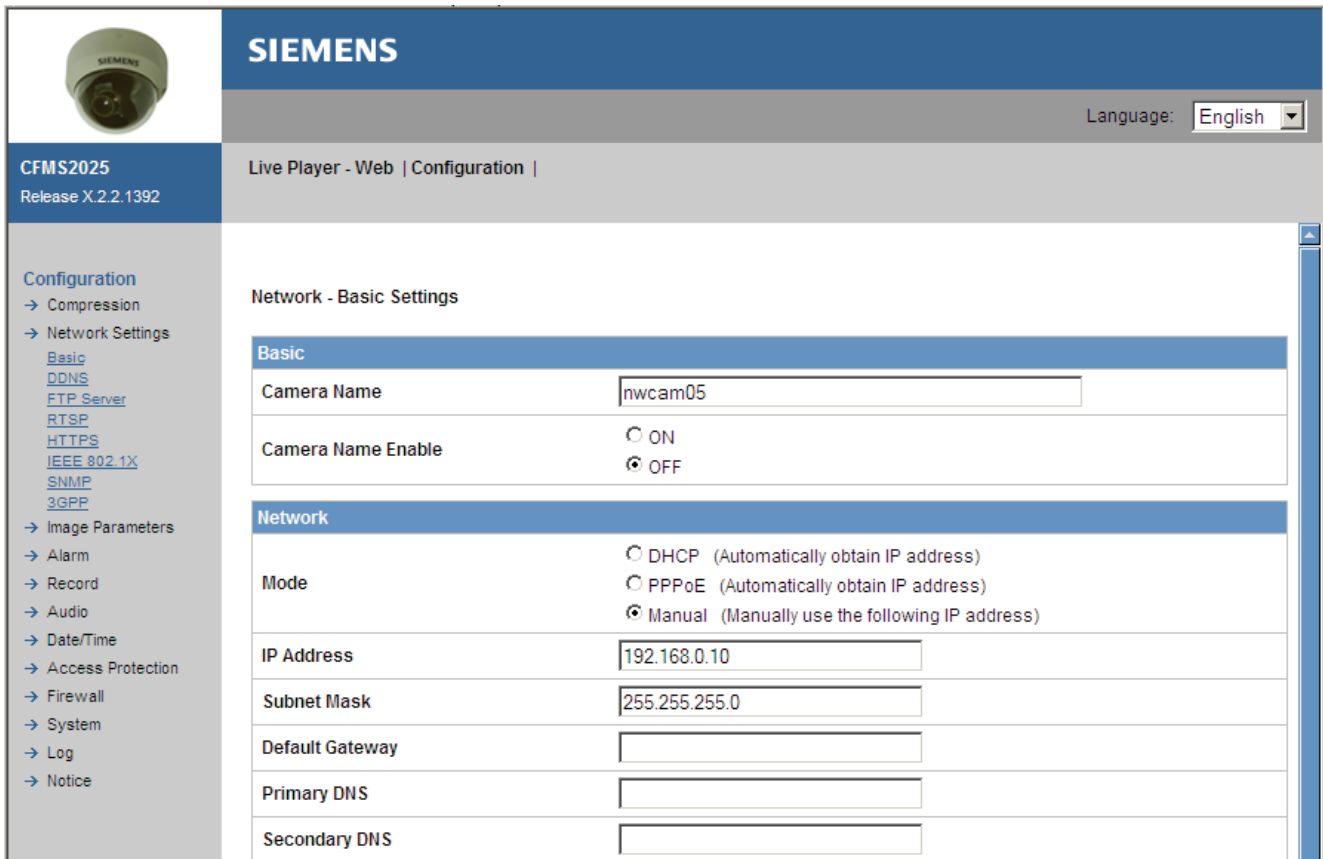
The frame rate value for each cropping can be set between 1 and 5 fps.

Cropping 1	
Frame Rate	5 fps
Cropping 2	
Frame Rate	5 fps
Cropping 3	
Frame Rate	5 fps
Cropping 4	
Frame Rate	5 fps
Cropping 5	
Frame Rate	5 fps
Save	

9.2 Network settings

You can configure your basic camera settings, DDNS, FTP server, RTSP, HTTPS, IEEE802.1X, SNMP & 3GPP by selecting "network setting" in the "Configuration" menu.

9.2.1 Basic



SIEMENS

Language: English

CFMS2025
Release X.2.2.1392

Live Player - Web | Configuration |

Configuration

- Compression
- Network Settings
 - Basic
 - DDNS
 - FTP Server
 - RTSP
 - HTTPS
 - IEEE 802.1X
 - SNMP
 - 3GPP
- Image Parameters
- Alarm
- Record
- Audio
- Date/Time
- Access Protection
- Firewall
- System
- Log
- Notice

Network - Basic Settings

Basic

Camera Name:

Camera Name Enable: ☐ ON ☒ OFF

Network

Mode: ☐ DHCP (Automatically obtain IP address) ☐ PPPoE (Automatically obtain IP address) ☒ Manual (Manually use the following IP address)

IP Address:

Subnet Mask:

Default Gateway:

Primary DNS:

Secondary DNS:

BASIC

Camera Name: Enter the name of your camera here. The default name is "nwcam05".

Camera Name Enable: Select "ON" to enable this function or "OFF" to disable it.

NETWORK

Mode:

- DHCP: The IP address is obtained automatically;
- PPPoE: The IP address is obtained automatically;
- Manual: Enter the IP address as shown in the screenshot above.

IP Address: If you have selected the option "Manual", enter your IP address here.

Subnet Mask: Please use default number: 255.255.255.0

Default Gateway: Leave blank. It is not necessary to enter a Default Gateway if it is not used. Ask your Network Administrator for information on the default gateway.

Primary DNS: (same as above)

Secondary DNS: (same as above)

IPv6 Address Configuration		
IPv6	<input type="radio"/> ON <input checked="" type="radio"/> OFF	
IPv6 Address		
Port		
Stream 1	<input type="text" value="80"/>	(Enter a value between 1 and 65535.)
Stream 2	<input type="text" value="81"/>	(Enter a value between 1 and 65535.)
Stream 3	<input type="text" value="82"/>	(Enter a value between 1 and 65535.)
Cropping 1	<input type="text" value="83"/>	(Enter a value between 1 and 65535.)
Cropping 2	<input type="text" value="84"/>	(Enter a value between 1 and 65535.)
Cropping 3	<input type="text" value="85"/>	(Enter a value between 1 and 65535.)
Cropping 4	<input type="text" value="86"/>	(Enter a value between 1 and 65535.)
Cropping 5	<input type="text" value="87"/>	(Enter a value between 1 and 65535.)
Https	<input type="text" value="443"/>	(Enter a value between 1 and 65535.)

IPv6 address configuration

IPv6: Select "ON" to use the new internet protocol or "OFF" to disable it.

Port

Stream 1 to Stream 3, cropping 1-5:

We recommend using the default settings. In case these need to be changed, contact your system administrator.

UPnP Use	
UPnP	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Bonjour Use	
Bonjour	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Audio Output Use	
Audio Output	<input checked="" type="radio"/> ON <input type="radio"/> OFF

UPnP Use:

When "ON" is selected, the camera can be detected automatically by the PC. It is not necessary to have the Web cam IP manager installed.

Bonjour Use

When "ON" is selected, the camera can be detected automatically by the Internet Explorer browser. It is not necessary to have the Web cam IP manager installed.

AUDIO output

When "ON" is selected, a voice message indicating camera's IP address can be delivered to a headphone.

9.2.2 DDNS Settings

- ▷ This function is available when you have registered with a DDNS provider. Select "ON" to enable the DDNS function.
- 1. Select your DDNS server from the list box, enter your user ID and password and confirm your password.
- 2. Click "Save" to save your settings.



Network - DDNS Settings

DDNS Settings	
DDNS	<input type="radio"/> ON <input checked="" type="radio"/> OFF
DDNS Server	DynDNS
Host Name	<input type="text"/>
Domain Name	<input type="text"/>
Enter user name and password according to your DDNS provider.	
User ID	<input type="text"/>
Password	<input type="password"/>
Password (Confirm)	<input type="password"/>

'DDNS service' is a service provided by DDNS provider.
MAC address of this camera is 00:0B:67:00:FA:06

Save

9.2.3 FTP Server

1. Select "ON" to activate the FTP function. Enter your login ID and password and confirm your password.
2. Select the number of maximum connections from the "Max Simultaneous Connections" list box. Click "Save" to save your settings.



This function is used to download directories/files to or to delete them from the SD memory card.

Network - FTP Server Settings	
FTP Server Settings	
FTP Function	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Login ID	admin
Password	<input type="password"/>
Password (Confirm)	<input type="password"/>
Max. Simultaneous Connections	10

Save

9.2.4 RTSP

Authentication: Select "ON" to enable the RTSP function. Enter your login ID and password and confirm your password.

Multicast Address: The default address is 231.0.0.222.

Configuration

- Compression
- Network Settings
 - Basic
 - DDNS
 - FTP Server
 - RTSP
 - HTTPS
 - IEEE 802.1X
 - SNMP
 - 3GPP
- Image Parameters
- Alarm
- Record
- Audio
- Date/Time
- Access Protection

Network - RTSP Settings

Authentication	
Authentication	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Login ID	<input type="text" value="admin"/>
Password	<input type="password" value="....."/>
Password (Confirm)	<input type="password" value="....."/>
Multicast Address	
Multicast Address	<input type="text" value="231.0.0.222"/> (224.0.0.23 ~ 239.255.255.254)

Stream1-3: Select the transfer type and enter the RTSP port, video port and audio port.

Stream 1	
Transfer Type	<input type="radio"/> Multicast <input checked="" type="checkbox"/> Automatic Connection <input checked="" type="radio"/> Unicast
RTSP Port	<input type="text" value="554"/> (1 - 65535)
Video Port	<input type="text" value="5000"/> (1 - 65535)
Audio Port	<input type="text" value="5002"/> (1 - 65535)

Cropping 1-5: Select the transfer type and enter the RTSP port, video port and audio port.

Cropping 1	
Transfer Type	<input type="radio"/> Multicast <input checked="" type="checkbox"/> Automatic Connection <input checked="" type="radio"/> Unicast
RTSP Port	<input type="text" value="557"/> (1 - 65535)
Video Port	<input type="text" value="5030"/> (1 - 65535)
Audio Port	<input type="text" value="5032"/> (1 - 65535)

9.2.5 HTTPS

Here you can upload a certificate. Click "Browse". A window will pop up. Select the file you want to upload. Click upload to upload the file.

Configuration

- Compression
- Network Settings
 - Basic
 - DDNS
 - FTP Server
 - RTSP
 - HTTPS
 - IEEE 802.1X
 - SNMP
 - 3GPP

SSL Certificate Installation

Certificate File Upload	
File Name :	<input type="text"/> <input type="button" value="Durchsuchen..."/> <input type="button" value="Upload"/>

The Last Certificate File : 2010/06/01 ~ 2011/06/01

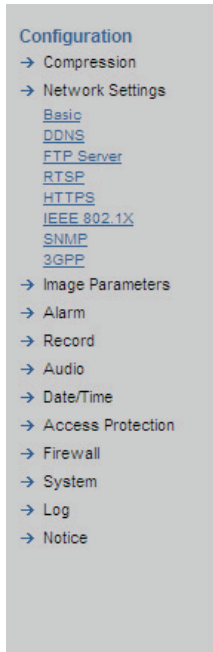
9.2.6 IEEE802.1X

Certificate:

1. Click "Browse"
 - ⇒ A window will open.
2. Select the desired certificate
3. Click "Upload" to upload the certificate..

Setting:

- EAPOL version: Select 1 or 2.
- EAP identity: Enter the EAP identity.
- Private key password: Enter your private key password.
- Enable IEEE 802.1X: Select "ON" to enable it or "OFF" to disable it.

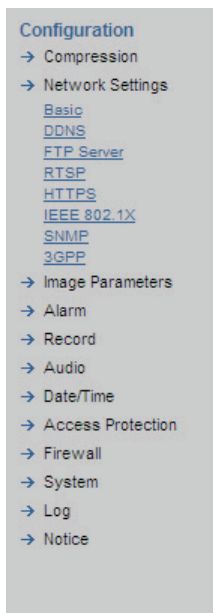


IEEE 802.1X Settings

Certificates	
CA certificate	<input type="text"/> <input type="button" value="Durchsuchen..."/> <input type="button" value="Upload"/>
	No CA certificate uploaded
Client certificate	<input type="text"/> <input type="button" value="Durchsuchen..."/> <input type="button" value="Upload"/>
	No client certificate uploaded
Client private key (and certificate)	<input type="text"/> <input type="button" value="Durchsuchen..."/> <input type="button" value="Upload"/>
	No private key uploaded

Settings	
EAPOL version	1
EAP identity	<input type="text"/>
Private key password	<input type="text"/>
Enable IEEE 802.1X	<input checked="" type="radio"/> OFF <input type="radio"/> ON

Select "ON" to enable SNMP V1, SNMP V2C and SNMP V3, respectively, or select "OFF" to disable them.



Network - SNMP Settings

SNMP V1 Settings	
SNMP V1	<input type="radio"/> ON <input checked="" type="radio"/> OFF

SNMP V2c Settings	
SNMP V2c	<input type="radio"/> ON <input checked="" type="radio"/> OFF

SNMP V3 Settings	
SNMP V3	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Login ID	<input type="text"/>
Password	<input type="text"/>

[Click to download the CCID1445-DN36 MIB file.](#)

9.2.7 3GPP

3GPP is the third generation technical standard which refers to GSM core network as the basis and UTRA as the wireless interface.

Configuration

- Compression
- Network Settings
 - Basic
 - DDNS
 - FTP Server
 - RTSP
 - HTTPS
 - IEEE 802.1X
 - SNMP
 - 3GPP
- Image Parameters
- Alarm
- Record
- Audio
- Date/Time
- Access Protection
- Firewall
- System
- Log

Network - 3GPP Settings

Authentication	
Authentication	<input type="radio"/> ON <input checked="" type="radio"/> OFF

3GPP Stream Setting	
Transfer Type	<input type="radio"/> Multicast <input checked="" type="checkbox"/> Automatic Connection <input checked="" type="radio"/> Unicast
RTSP Port	<input style="width: 60px;" type="text" value="55"/> (1 - 65535)
Video Port	<input style="width: 60px;" type="text" value="56"/> (1 - 65535)
Audio Port	<input style="width: 60px;" type="text" value="57"/> (1 - 65535)


9.3 Image parameter

9.3.1 Basic camera settings

Here you can configure the basic settings of the camera such as image size and quality.

1. Select "Image Parameters" in the "Configuration" menu.
 - A sub menu for camera function setting will appear.
2. Select "Basic" in the sub menu.
 - The "Camera - Basic Settings" dialog will appear.
3. Configure the individual settings.
 - Click "Save" to save your settings.

The settings will not be applied unless "Save" is clicked.



SIEMENS

Language: English

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Configuration

- Compression
- Network Settings
- Image Parameters
 - Basic
 - Mask Zone
 - Cropping
 - OSD
- Alarm
- Record
- Audio
- Date/Time
- Access Protection
- Firewall
- System
- Log
- Notice

Live Player - Web | Configuration |

Camera - Basic Settings

Day-Night Settings

Day-Night Settings	Auto
Day-Night Delay Time	5
Day-Night Level	Mid

Image Colour

Preset Image	OFF
Automatic Exposure	AES
Level	<div style="display: flex; align-items: center;"> <div style="flex: 1; position: relative;"> <div style="position: absolute; left: 0; top: -10px;">◀</div> <div style="position: absolute; right: 0; top: -10px;">▶</div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, #ccc, #000);"></div> <div style="position: absolute; left: 50%; top: -10px; transform: translate(-50%, -50%);">5</div> </div> <div style="margin-left: 10px;">(1 ~ 10)</div> </div>
Brightness adjustment	<div style="display: flex; align-items: center;"> <div style="flex: 1; position: relative;"> <div style="position: absolute; left: 0; top: -10px;">◀</div> <div style="position: absolute; right: 0; top: -10px;">▶</div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, #ccc, #000);"></div> <div style="position: absolute; left: 50%; top: -10px; transform: translate(-50%, -50%);">128</div> </div> <div style="margin-left: 10px;">(0 ~ 255)</div> </div>
contrast	<div style="display: flex; align-items: center;"> <div style="flex: 1; position: relative;"> <div style="position: absolute; left: 0; top: -10px;">◀</div> <div style="position: absolute; right: 0; top: -10px;">▶</div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, #ccc, #000);"></div> <div style="position: absolute; left: 50%; top: -10px; transform: translate(-50%, -50%);">128</div> </div> <div style="margin-left: 10px;">(0 ~ 255)</div> </div>
Saturation	<div style="display: flex; align-items: center;"> <div style="flex: 1; position: relative;"> <div style="position: absolute; left: 0; top: -10px;">◀</div> <div style="position: absolute; right: 0; top: -10px;">▶</div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, #ccc, #000);"></div> <div style="position: absolute; left: 50%; top: -10px; transform: translate(-50%, -50%);">128</div> </div> <div style="margin-left: 10px;">(0 ~ 255)</div> </div>
Shutter Speed	1/50 sec
Manual Gain	0 dB
AWB	ON

R Gain	165 (0 ~ 256)
GR Gain	128 (0 ~ 256)
GB Gain	128 (0 ~ 256)
B Gain	193 (0 ~ 256)
D Gain	256 (0 ~ 256)
Noise Reduction	1 (0 ~ 8)
Sharpness	128 (0 ~ 255)
Back Light Compensation (BLC)	OFF

- **Day-Night Settings:**
Select "Auto", "Day" or "Night" mode according to the environment.
Only active if not linked to alarm input.
- **Day-Night Delay Time:**
Choose the day-night delay time from 0, 5, 10, 15, 30.
- **Day-Night Level:**
Choose the day/night level: Low, Mid, High.
- **Preset image:**
Choose OFF, Indoor, Outdoor, Tunnel and Casino, according to the environment.

- **Automatic Exposure:**
Controls the light intensity of the image. 2 types of specific application conditions can be selected: Manual or AES (Automatic Electronic Shutter) by the camera depending on your application environment. When use the Manual, the Shutter speed is enabled to adjust
- **Brightness:**
Adjust the brightness between 0 and 255.
- **Contrast:**
Set the contrast level between 0 and 255.
- **Saturation:**
Adjust the saturation between 0 and 255.
- **Shutter Speed:**
Set the desired shutter speed between 1/25 and 1/10000 s. The shutter speed can be set to 1/25, 1/50, 1/100, 1/120, 1/150, 1/200, 1/300, 1/500, 1/750, 1/1500, 1/5000 and 1/10000 s. The network camera will adjust the aperture to the ambient light level.
- **Manual Gain:**
Adjust the manual gain level between 0 and 24 dB. This function is available for manual lenses only.
- **AWB:**
Set the white balance values to meet the environment condition for best color rendition.
"ON": the color of camera is automatically adjusted according to external lighting condition.
"OFF": Adjustable by user manually, this is useful for some specific condition which AWB may be unaffordable to perform correctly. You can set the current R/B color temperature manually.
- **R Gain, GR Gain, GB Gain, B Gain, D Gain:**
Adjust manual gain value of R Gain, B Gain between 0 and 255. This function is available for manual lenses only.
- **Noise Reduction:**
Select either "ON" or "OFF".
- **Sharpness:**
Increasing the sharpness value enhances the edges and small features in your camera images. You can adjust the sharpness between 0 and 255. .
- **Backlight Compensation:**
Set this option to "ON" or to "OFF"

Picture	
Picture Flip	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Picture Mirror	<input type="radio"/> ON <input checked="" type="radio"/> OFF

- **Picture Flip:**
When mounted upside down select "ON" to activate the flip function. With this function you can flip an image upside down. Select "ON" to activate or "OFF" to deactivate the flip function.
- **Picture Mirror:**
The selected image will be side-inverted. Select "ON" to activate or "OFF" to deactivate the mirror function.

9.3.2 Camera mask zone settings

Configuration


- Compression
- Network Settings
- Image Parameters
 - Basic
 - Mask Zone
 - Cropping
 - OSD
- Alarm
- Record
- Audio
- Date/Time
- Access Protection
- Firewall
- System
- Log
- Notice

Camera - Mask Zone Settings

Mask Zone	Enable	No.	Mask Zone
	<input checked="" type="radio"/> ON <input type="radio"/> OFF	1	<input type="button" value="Set Mask Zone"/>
	<input type="radio"/> ON <input checked="" type="radio"/> OFF	2	<input type="button" value="Set Mask Zone"/>
	<input type="radio"/> ON <input checked="" type="radio"/> OFF	3	<input type="button" value="Set Mask Zone"/>
	<input type="radio"/> ON <input checked="" type="radio"/> OFF	4	<input type="button" value="Set Mask Zone"/>
	<input type="radio"/> ON <input checked="" type="radio"/> OFF	5	<input type="button" value="Set Mask Zone"/>
	<input type="radio"/> ON <input checked="" type="radio"/> OFF	6	<input type="button" value="Set Mask Zone"/>
	<input type="radio"/> ON <input checked="" type="radio"/> OFF	7	<input type="button" value="Set Mask Zone"/>
	<input type="radio"/> ON <input checked="" type="radio"/> OFF	8	<input type="button" value="Set Mask Zone"/>

Camera - Mask Zone Area Settings

Mask Zone Area Setting



Resolution 640x480

- Choose the desired color for the masks.

- Select “ON”, then click “Set Mask Zone” to start mask setting.
- Drag a mask rectangle on the screen. Click “OK” to complete the selection.
- Click “Save” to enable the mask setting.



Up to 8 masks can be set on the screen.

- EZOOM is not supported when cropping function is on.
- Privacy zone is not supported when cropping function is on.
- The cropping size of width and height must be multiple of 32. Ex: 320*160.
- The smallest cropping size will be 128*128.
- At least a resolution that should be set in VGA or D1.

9.3.3 Camera cropping settings

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 Mask Zone
 Cropping
 OSD
 → Alarm
 → Record
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Camera - Cropping Settings

Cropping			
Enable	No.	Name	Area
<input type="checkbox"/>	1	<input style="width: 150px;" type="text"/>	Set Cropping Area
<input type="checkbox"/>	2	<input style="width: 150px;" type="text"/>	Set Cropping Area
<input type="checkbox"/>	3	<input style="width: 150px;" type="text"/>	Set Cropping Area
<input type="checkbox"/>	4	<input style="width: 150px;" type="text"/>	Set Cropping Area
<input type="checkbox"/>	5	<input style="width: 150px;" type="text"/>	Set Cropping Area

EZOOM is not supported when cropping function is on.
 Privacy zone is not supported when cropping function is on.

Save

Camera - Cropping Area Settings



1. Mark the appropriate "Enable" checkbox and enter a name, then click "Set Cropping Area" to start cropping setting.
2. A cropping setting screen will pop up as shown. Select one of the cropping options (QVGA, CIF, QCIF, Free Size) at the bottom of the screen. A red-mesh rectangle will appear on the screen.
3. Select one of the predefined sizes.
 - ⇒ The zone appears at the screen.
4. Move the zone by clicking the left mouse button in the center of the target position.
 - ⇒ The red mesh will jump to that position.
5. Click "OK" to save and finish the settings.
6. Click "Save" to save your settings.

Select free size

1. Click on one corner of the window and drag it to the desired size
2. Click "OK" to save and finish the settings.

!	NOTICE
	<p>Max. 5 cropping areas can be set on the screen.</p> <p>E-zoom is not supported when cropping function is on.</p> <p>Privacy zone is not supported when cropping function is on.</p> <p>The cropping size (width and height) must be a multiple of 32. Example: 320*160.</p> <p>The smallest cropping size will be 128*128.</p> <p>The minimum resolution should be set to VGA or D1.</p>

9.3.4 Camera OSD settings

This function setups the text position and colour of camera name, Alarm text or DATE/TIME on the screen. Of course, the corresponding ENABLE flag for each item shall be "ON" to activate this function, such as camera name Enable in Network setup, Text enable in Alarm setting and Display in DATE/TIME setting.

Configuration

- Compression
- Network Settings
- Image Parameters
 - Basic
 - Auto Patrol
 - Mask Zone
 - Cropping
 - OSD
- Alarm
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- System
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Camera - OSD Settings

Camera Name / Alarm Text	
Horizontal Position	1 ▾
Vertical Position	1 ▾
Colour	White ▾


Date/Time	
Horizontal Position	1 ▾
Vertical Position	20 ▾

9.4 Alarm

9.4.1 Alarm

If a sensor or another device is connected to the alarm input, an alarm will be triggered when an event is detected by the sensor or the other device. For example, if a sensor is attached to a door, an alarm will be triggered each time the door is opened. An enabled motion sensor will trigger an alarm a change on a screen is detected.

On the rear panel, there are 3 digital alarm inputs (AL1, AL2, AL3). Before using the alarm function, you need to define some parameters.



Language: English

CFMS2025
 Release X.2.2.1383

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Camera - Alarm Settings

External Digital Input 1

Alarm Input	<input type="radio"/> Alarm Input <input type="radio"/> B/W Mode <input checked="" type="radio"/> OFF
The following settings are enabled when alarm is set to other than 'OFF':	
Input Type	<input checked="" type="radio"/> Normally Open (NO) <input type="radio"/> Normally Closed (NC)
Text Enable	<input checked="" type="radio"/> ON <input type="radio"/> OFF
Text	<input style="width: 150px;" type="text"/>
Audio Output	<input checked="" type="radio"/> ON <input type="radio"/> OFF
Event	Audio Event 1

External digital input 1

1. Alarm Input
 When "ON" is selected: external alarm will be detected.
 The following functions will be enabled when the option "Alarm Input" is selected.
 B/W mode: The camera is switched to monochrome mode when a trigger signal is received.
2. Input Type
 Normally Open (NO): open if nothing occurs but closed in case of an alarm.
 Normally Closed (NC): closed if nothing occurs but open in case of an alarm.
3. Text Enable
 When "ON" is selected, an alarm message will be displayed on the screen.
4. Text
 Enter a text for the alarm message.
 Max. 22 characters can be entered.
5. Audio Output
 When "ON" is selected, an audio alarm message will be sent to an external speaker.



A speaker with integrated amplifier inside has to be connected to the AUDIO out jack.

6. Event
 Select an event.
 Pre-recorded voice files with the extension .wav that have been uploaded to the SD memory card can be selected as alarm messages. Up to 10 audio sources can be selected.
7. Actions
 Default is OFF, preset can be selected 1~16.

Motion Detection Settings	
Motion Detection	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Area	<input type="button" value="Set Motion Area"/>
Sensitivity	<input type="text" value="Mid"/>
Text Enable	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Text	<input type="text"/>
Audio Output	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Event	<input type="text" value="Audio Event 1"/>

The settings are similar to those for alarm inputs, with some additional functions:

- Motion Detection
 - Select "ON" to enable the motion detection function.
 - Select "Track", to track the moving object.
 - Default setting: "OFF"

External digital inputs 2, 3

External digital inputs 2, 3: All configurations are the same as those made for external digital input 1, except that input mode B/W is not available.

Motion detection settings

The settings are similar to those for alarm inputs, with some additional functions:

1. Motion Detection
Select "ON" to enable the motion detection function.
Default setting: "OFF".
2. Area
Click "Set Motion Area".
An image screen will pop up.
Select the target area by dragging the mouse.
3. Sensitivity
Select the desired sensitivity.
High: Even small changes in brightness or motion are detected.
Mid: Intermediate between High and Low.
Low: Only large changes in brightness or motion are detected.
4. Event
Select an event.
Pre-recorded voice files with the extension .wav that have been uploaded to the SD memory card can be selected as alarm messages. Up to 10 audio sources can be selected .

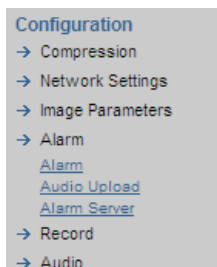
Alarm output

Alarm Output	
Alarm Mode	<input checked="" type="radio"/> OFF <input type="radio"/> Event
Output Hold Time	<input type="text" value="5"/> seconds

1. Alarm mode:
The alarm output can be activated when any of the following events occurs:
 - B/W: when the image changes to monochrome.
 - Event: When alarm input 1, alarm input 2 or alarm input 3 or motion is triggered, the alarm output will reflect this immediately as well.
2. Output hold time:
Set a time to hold the alarm output. You can select 0, 5, 10, 15, or 30 seconds.
This function is used when a siren, buzzer or emergency light is connected.

9.4.2 Audio event upload

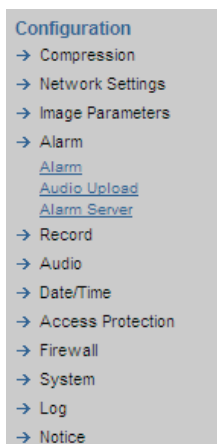
Select an audio event. Upload the *.wav file as a voice alarm message to the SD card or a PC. Up to 10 audio events can be selected. Alarm input 1 and motion setting will show different effects depending on which audio event you selected.



Audio Event Upload

Audio Event 1 :	
File Name :	<input type="text"/> <input type="button" value="Durchsuchen..."/> <input type="button" value="Upload"/>
Audio Event 2 :	
File Name :	<input type="text"/> <input type="button" value="Durchsuchen..."/> <input type="button" value="Upload"/>

9.4.3 Alarm server



Alarm Server


Alarm Server	
Conditions	<input type="checkbox"/> Alarm <input type="checkbox"/> Motion
Alarm Server IP Address	<input type="text"/>
Alarm Server Port Number	<input type="text"/> (1~65535)
Alarm - Input Message	<input type="text"/>
Motion - Alarm Message	<input type="text"/>
<input type="button" value="Save"/>	

Configure the alarm server as follows:

1. Conditions:
Select either "Alarm" or "Motion".
2. Alarm Server IP Address:
Enter the IP address of the alarm server.
3. Alarm Server Port Number:
Enter the alarm server port number.
4. Alarm Input Message:
Enter a message text. This text must not be longer than 64 characters. When an alarm event occurs, the alarm server will receive this message text.
5. Motion Alarm Message:
Enter a message text. This text must not be longer than 64 characters. When a motion event occurs, the alarm server will receive this message text.

9.5 Recording

9.5.1 FTP Recording



SIEMENS

Language: English

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Release X.2.2.1383

Live Player - Web | Configuration |

FTP Recording

Conditions

Conditions

☒ Schedule
☐ Alarm
☐ Motion

FTP Server 1 Settings

FTP Server Name

Login ID

Password

Password (Confirm)

FTP Port Number

21

FTP Mode

☒ PORT ☐ PASV

FTP Connecting Method

☒ Reconnect ☐ Continuous Connection

FTP Server 2 Settings

FTP Server Name

Login ID

Password

Password (Confirm)

FTP Port Number

21

FTP Mode

☒ PORT ☐ PASV

FTP Connecting Method

☒ Reconnect ☐ Continuous Connection

Connecting Method

Primary Server

☒ FTP Server 1 (Default)
☐ FTP Server 2

Automatic Server Switch

☐ ON (Automatically switch to another server in case of communication fault)
☒ OFF (Default)

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Scheduled Recording				
Day	Recording Schedule			
	Stop	All Day	Schedule 1	Schedule 2
Monday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tuesday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wednesday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thursday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Friday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Saturday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sunday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Schedule 1	Start: 8 a.m. - Stop: 5 p.m.			
Schedule 2	Start: 8 a.m. - Stop: 5 p.m.			
Recording Cycle	1 seconds			
Record File Name	LV [] yyyyymmddHHMMSS**N.JPG			
Server Path	Server 1: [] Server 2: []			

SD Backup	
Function ON/OFF	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Accumulation Cycle	60 seconds
Overwrite	<input checked="" type="radio"/> ON <input type="radio"/> OFF

Save

You can save image files via FTP. Set the FTP recording conditions first. Choose between FTP server 1 and 2.

- **FTP Recording Conditions**
You can save your image files generated by scheduled recording, alarm recording, or motion-triggered recording.
- **Scheduled Recording**
Select the recording condition in the recording schedule table for all days from Monday to Sunday: Stop, All Day, Schedule 1 or Schedule 2.

Recording by Alarm	
Record Source	<input checked="" type="radio"/> JPEG <input type="radio"/> MPEG4
Pre-Recording Frame	10
Pre-Recording Cycle	1 s
Recording Frame	10
Recording Cycle	1 s
Record File Name	Alarm In : EX [] yyyyymmddHHMMSS
Server Path	Server 1: [] Server 2: []

Recording by Motion	
Record Source	<input checked="" type="radio"/> JPEG <input type="radio"/> MPEG4
Pre-Recording Frame	10
Pre-Recording Cycle	1 s
Recording Frame	10
Recording Cycle	1 s
Record File Name	Alarm In : MD [] yyyyymmddHHMMSS
Server Path	Server 1: [] Server 2: []

- **Recording by Alarm**

- ▷ Prerequisite: The alarm inputs have been configured.
Then proceed as follows:
 1. Record Source
Select either JPEG or MPEG4 format
 2. Pre-Recording Frame
Select the number of images to be recorded before an alarm occurs. Images of the moment when the alarm occurs are not included.
 - ⇒ With JPEG format, 0, 1, 3, 5, or 10 frames can be selected.
Not required with MPEG4 format.
 3. Pre-Recording Cycle
Set a time interval for pre-alarm recording. With JPEG format, 1, 2, 5, 10, 30s can be selected.
 - ⇒ Not required with MPEG4 format.
 4. Recording Frame
Select the number of images to be recorded immediately after an alarm has occurred. Images of the moment when an alarm occurs are not included.
 - ⇒ With JPEG format, 1, 2, 5, 10, 30, or 60 frames can be selected.
Not required with MPEG4 format.
 5. Recording Cycle
Set a time interval for alarm recording. With JPEG format, 1, 2, 5, 10, 30, 60, 90, 120s can be selected.
 - ⇒ Not required with MPEG4 format.
 6. Recording Time
When MPEG4 is selected, the recording time can be set to 2, 5, or 10s.
 - Recording by Motion
- ▷ Prerequisite: Motion detection has been configured.
 - All other settings are the same as for recording by alarm (see above).

FTP Server Settings - Server 1 and 2

Enter the FTP server name, Login ID, Password, FTP port number, FTP mode, and FTP connecting method.

- FTP Server Name: Enter a server name or address.
- Login ID: Only for users who are authorized to access the server.
- Password: Enter the registered password associated with the login ID.
- Password (Confirm): Re-enter the password
- FTP Port Number: Set "21" as default
- FTP Mode: PORT - This mode is for most FTP applications; PASV - This mode is used when the camera is operated in a network environment that is behind a firewall.
- FTP Connecting Method: Reconnect - The network camera logs in/out for each file transfer; Continuous Connection - The network camera is always connected.

Connecting method

You can choose to save your image files to either FTP server 1 or FTP server 2, or automatically switch between servers.

Connecting Method	
Primary Server	<input checked="" type="radio"/> FTP Server 1 (Default) <input type="radio"/> FTP Server 2
Automatic Server Switch	<input type="radio"/> ON (Automatically switch to another server in case of communication fault) <input checked="" type="radio"/> OFF (Default)

SD card backup in case of FTP failure

You can make a SD card backup even in case of an FTP failure.

The network camera automatically stores images on the SD card if they cannot be stored on the server due to a network failure, or other error condition. The stored images can be manually transferred to the FTP server when the problem has been resolved.

Function ON/OFF: Select "ON" to activate the SD card backup in case of FTP failure.

Accumulation Cycle: Set a time interval in seconds (1, 2, 5, 10, 15, 30, 60 or 120 seconds) for recorded images to be stored.

Overwrite: When set to "ON", the images stored on the SD card will be overwritten when the capacity of the SD card has been reached, starting with the oldest files.

SD Backup	
Function ON/OFF	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Accumulation Cycle	<input type="text" value="60"/> seconds
Overwrite	<input type="radio"/> ON <input checked="" type="radio"/> OFF

9.5.2 SD recording

SD Recording

Conditions	
Conditions	<input checked="" type="checkbox"/> Schedule <input type="checkbox"/> Alarm <input type="checkbox"/> Motion <input type="checkbox"/> Network

Scheduled Recording				
Day	Recording Schedule			
	Stop	All Day	Schedule 1	Schedule 2
Monday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tuesday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wednesday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thursday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Friday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Saturday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sunday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Schedule 1	Start: <input type="text" value="8"/> <input type="text" value="a.m."/> - Stop: <input type="text" value="5"/> <input type="text" value="p.m."/>			
Schedule 2	Start: <input type="text" value="8"/> <input type="text" value="a.m."/> - Stop: <input type="text" value="5"/> <input type="text" value="p.m."/>			
Recording Cycle	<input type="text" value="60"/> seconds			

Overwrite	
Overwrite	<input type="radio"/> ON <input checked="" type="radio"/> OFF

Recording by Alarm	
Record Source	<input checked="" type="radio"/> JPEG <input type="radio"/> MPEG4
Pre-Recording Frame	0
Pre-Recording Cycle	1 s
Recording Frame	10
Recording Cycle	1 s

Recording by Motion	
Record Source	<input checked="" type="radio"/> JPEG <input type="radio"/> MPEG4
Pre-Recording Frame	0
Pre-Recording Cycle	1 s
Recording Frame	10
Recording Cycle	1 s

Overwrite	
Overwrite	<input type="radio"/> ON <input checked="" type="radio"/> OFF

Images captured according to a schedule, during alarm situations (motion, network cable removed, etc.), can be stored on a SD memory card that is inserted in the network camera.

Configure the individual settings.

- Recording by Alarm

▷ Prerequisite: The alarm inputs have been configured.
Then proceed as follows:

1. Record Source
Select either JPEG or MPEG4 format
2. Pre-Recording Frame
Select the number of images to be recorded before an alarm occurs. Images of the moment when an alarm occurs are not included.
0,1,3,5,10 frames can be selected if JPEG format selected. No need for MPEG4 format.
3. Pre-recording cycle
Set a time interval for pre-alarm recording 1, 2, 5, 10, 30s can be selected for JPEG format, no need for MPEG4 format
4. Record frame
Set the number of images to be recorded immediately after an alarm occurs. Images of the moment when an alarm occurs are not included.
1,2,5,10,30,60 frames can be selected if JPEG format selected. No need for MPEG4 format.
5. Recording cycle
Set a time interval for alarm recording 1, 2, 5, 10, 30,60,90,120s can be selected for JPEG format, no need for MPEG4 format
6. Recording time
If MPEG4 selected, please set the recording from 2,5,10s.

- Recording by Motion

▷ Prerequisite: Motion detection has been configured.

- All other settings are the same as for recording by alarm (see above).

- Scheduled Recording
 - Select the recording condition in the recording schedule table for all days from Monday to Sunday: STOP, All Day, Schedule 1 or Schedule 2.
 - Recording by Network loss
 1. Select network recording. During a network loss, the network camera automatically stores images to the SD card based on your settings.
 2. Recording Cycle
Set a time interval for network recording: 1, 2, 5, 10, 30, 60, 90 or 120 s
 - Overwrite

ON: Data stored on the SD card will be overwritten when the capacity of the SD card has been reached, starting with the oldest file.

OFF: Recording will be stopped if the capacity of the SD memory card is reached during recording.
 - Click "Save".
- ⇒ The changes will be saved.



When the overwrite mode is set to "ON", files will be deleted starting with the oldest files. If important data needs to be saved, set the overwrite mode to "OFF".

9.5.3 Email recording

You can receive images if you have set up your email account.

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E-mail Recording

Conditions	
Conditions	<input type="checkbox"/> Schedule <input checked="" type="checkbox"/> Alarm <input checked="" type="checkbox"/> Motion

E-mail Server Settings	
Authentication	<input type="radio"/> No Authentication <div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="radio"/> SMTP </div> <div> <input checked="" type="radio"/> PLAIN <input type="radio"/> LOGIN <input type="radio"/> CRAM-MD5 </div> </div>
E-mail Server (SMTP)	<input type="text" value="217.72.192.157"/>
The following 3 items are enabled when 'SMTP' is selected	
E-mail User ID	<input type="text" value="hans-juergen.Muster@web.de"/>
Password	<input type="password" value="••••••••"/>
Password (Confirm)	<input type="password" value="••••••••"/>
Administrator E-mail Address	<input type="text" value="hans-juergen.Muster@web.de"/> <input type="button" value="Save & Test E-mail"/>

Scheduled Recording				
Day	Recording Schedule			
	Stop	All Day	Schedule 1	Schedule 2
Monday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tuesday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wednesday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thursday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Friday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Saturday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sunday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Schedule 1	Start: 8 a.m. - Stop: 5 p.m.			
Schedule 2	Start: 8 a.m. - Stop: 5 p.m.			
Recording Cycle	1 seconds			
Record File Name	LV [] yyyyMMddHHMMSS***N.JPG			
Server Path	Server 1: [] Server 2: []			

SD Backup	
Function ON/OFF	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Accumulation Cycle	60 seconds
Overwrite	<input checked="" type="radio"/> ON <input type="radio"/> OFF

Save

Mail to				
Send to Administrator			<input checked="" type="radio"/> ON <input type="radio"/> OFF	
No.	E-mail Address	Send Condition		
		Schedule	Alarm	Motion
1	[]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	[]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	[]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Recording by Alarm	
Subject	[]
Message	[]
Attach Image	<input type="radio"/> ON <input checked="" type="radio"/> OFF

Recording by Motion	
Subject	[]
Message	[]
Attach Image	<input type="radio"/> ON <input checked="" type="radio"/> OFF

Set the conditions for sending email according to a schedule

▷ If "Schedule" is selected

1. Subject – Enter a subject title for the email to be sent.

2. Message – Enter a text for the alarm message.
3. Attach Image – When "ON" is selected, you can attach image files to your email.
4. Recording Schedule – Select the days to be included in the recording schedule.
5. Recording Cycle - Set a time interval for scheduled recording: 30, 60, 120, 240, 600, 1200, 1800 or 3600 s.

Set the conditions for sending email in the event of an alarm

▷ If "Alarm" is selected:

1. Subject – Enter a subject title for the email to be sent
2. Message – Enter a text for the alarm message.
3. Attach Image – When "ON" is selected, you can attach image files to your email.

Set the conditions for sending email when a motion is detected

▷ If "Motion" is selected:

1. Subject – Enter a subject title for the email to be sent
2. Message – Enter a text for the alarm message.
3. Attach Image – When "ON" is selected, you can attach image files to your email.

Authentication settings

No Authentication - no restrictions

SMTP - Simple Mail Transfer Protocol (SMTP) is an Internet standard for electronic mail (email) transmission across Internet Protocol (IP) networks

PLAIN - PLAIN is a registered SASL authentication mechanism, which is supplied as a parameter to the AUTH command. The PLAIN authentication mechanism is described in RFC 2595. PLAIN is the least secure of all the SASL authentication mechanisms, since the password is essentially sent unencrypted across the network.

LOGIN - The LOGIN mechanism is supported by Microsoft's Outlook Express, as well as by some other clients.

CRAM-MD5 - In CRAM-MD5 authentication, the server first sends a challenge string to the client. The client responds with a user name followed by a space character and then a 16-byte digest in hexadecimal notation. The digest is the output of HMAC-MD5 with the user's password as the secret key, and the server's original challenge as the message. The server also calculates its own digest with its notion of the user's password. If the client's digest and the server's digest match then authentication was successful.

1. Email Server (SMTP) - Enter your outgoing mail server (SMTP).
⇒ For further information contact your admin.
2. Email User ID – Enter your email account ID.
3. Password – Enter your email account's password.
4. Password (Confirm) – Confirm your email password.
5. Administrator email Address – Enter your email address.
6. Click "Save & Test Email" to save and test your email settings.

Mail to address list

You can send emails to multiple users according to schedule, or when an alarm is triggered or a motion is detected.

9.5.4 NAS recording

This is a method to store data on network-based storage devices.

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NAS Recording

NAS Settings	
NAS Record Conditions	<input type="checkbox"/> Schedule <input type="checkbox"/> Alarm <input type="checkbox"/> Motion
NAS Mode	<input checked="" type="radio"/> NFS <input type="radio"/> CIFS
Server	<input type="text"/>
User ID	<input type="text"/>
Password	<input type="text"/>
Password (Confirm)	<input type="text"/>
Path	<input type="text"/>

Save

Scheduled Recording				
Day	Recording Schedule			
	Stop	All Day	Schedule 1	Schedule 2
Monday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tuesday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wednesday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thursday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Friday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Saturday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sunday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Schedule 1	Start: 8 a.m.	- Stop: 5 p.m.		
Schedule 2	Start: 8 a.m.	- Stop: 5 p.m.		
Recording Cycle	1 seconds			
Record File Name	LV <input type="text"/> yyyymmddHHMMSS***N.JPG			
Server Path	Server 1: <input type="text"/>			
	Server 2: <input type="text"/>			

SD Backup	
Function ON/OFF	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Accumulation Cycle	60 seconds
Overwrite	<input checked="" type="radio"/> ON <input type="radio"/> OFF

Save

Recording by Alarm	
Record Source	<input checked="" type="radio"/> JPEG <input type="radio"/> MPEG4
Pre-Recording Frame	<input type="text" value="10"/>
Pre-Recording Cycle	<input type="text" value="1"/> s
Recording Frame	<input type="text" value="10"/>
Recording Cycle	<input type="text" value="1"/> s
Record File Name	Alarm In : EX <input type="text"/> yyyyymmddHHMMSS
Server Path	Server 1: <input type="text"/> Server 2: <input type="text"/>

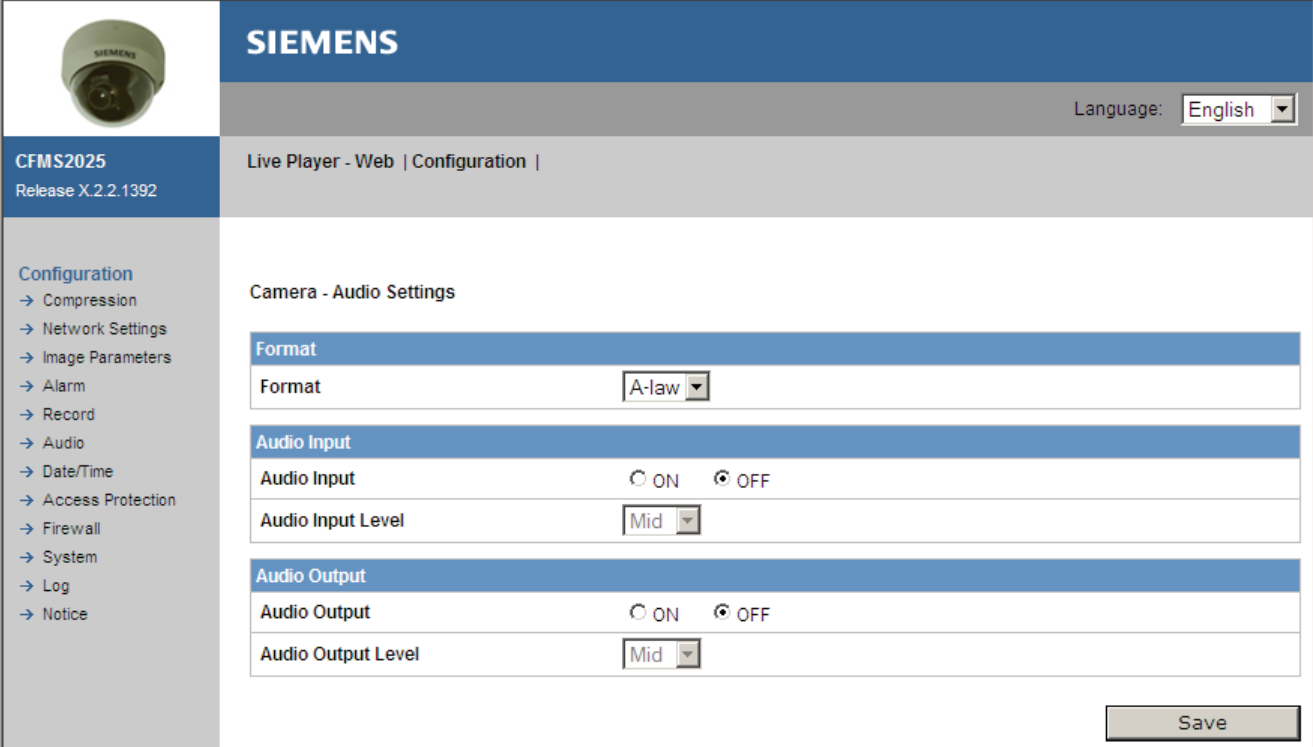
Recording by Motion	
Record Source	<input checked="" type="radio"/> JPEG <input type="radio"/> MPEG4
Pre-Recording Frame	<input type="text" value="10"/>
Pre-Recording Cycle	<input type="text" value="1"/> s
Recording Frame	<input type="text" value="10"/>
Recording Cycle	<input type="text" value="1"/> s
Record File Name	Alarm In : MD <input type="text"/> yyyyymmddHHMMSS
Server Path	Server 1: <input type="text"/> Server 2: <input type="text"/>

1. Choose the recording condition:
Select the desired recording condition (Schedule, Alarm or Motion) to trigger the recording session.
If Schedule mode is selected, the data will be stored on the NAS in JPEG format only.
⇒ After the “Recording Schedule” condition has been selected, the corresponding detailed recording field appears.
2. Select the conditions you need.
3. Select the desired NAS mode: NFS or CIFS
NFS is for network storage devices using UNIX systems while CIFS is for Windows systems.
4. Enter the storage device’s address, user ID, password, and the data path where the data is to be stored in the Server, User ID, Password and Path text fields, respectively.
5. Click “Save” to complete the NAS setup procedure.



Make sure all NAS devices are available in network before activating this function.

9.6 Audio



SIEMENS

Language: English

CFMS2025
Release X.2.2.1392

Live Player - Web | Configuration |

Configuration

- Compression
- Network Settings
- Image Parameters
- Alarm
- Record
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- Date/Time
- Access Protection
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- System
- Log
- Notice

Camera - Audio Settings

Format

Format A-law

Audio Input

Audio Input ☐ ON ☒ OFF

Audio Input Level Mid

Audio Output

Audio Output ☐ ON ☒ OFF


Audio Output Level Mid

Save

You can configure your audio settings by enabling the audio input and output.

- **Format**
Two audio compression formats are supported: A-law and U-law.
- **Audio input**
Audio Input: Select "ON" for receiving audio from a microphone connected to the camera.
Audio Input Level:
 - HIGH - Increases the audio input level.
 - MIDDLE - Adjusts the audio input level to a medium level.
 - LOW - Reduces the audio input level.
- **Audio output**
Audio Output: Select "ON" for delivering audio to a headphone or an active speaker connected to the camera.
Audio Output Level:
 - HIGH - Increases the audio output level.
 - MIDDLE - Adjusts the audio output level to a medium level.
 - LOW - Reduces the audio output level.

9.7 Date / Time



SIEMENS

Language: English

CFMS2025
Release X.2.2.1383

Live Player - Web | Configuration |

Configuration
→ Compression
→ Network Settings
→ Image Parameters
→ Alarm
→ Record
→ Audio
→ Date/Time
→ Access Protection
→ Firewall
→ System
→ Log
→ Notice

Date and Time

Set Display and Synchronization Mode

Display	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Synchronization Mode	<input checked="" type="radio"/> Manual <input type="radio"/> NTP <input type="radio"/> Synchronization from PC

Set Date and Time Manually

Date:	Nov 30 20 0 9
Time:	0 : 58 : 6 a.m.

Set Date and Time By NTP Server

Time Zone	GMT +2 Athens, Istanbul, Minsk, Berlin
NTP Server	<input type="text"/>
Time Adjustment Period	On camera boot and at 6-hour intervals
NTP Time Adjustment Test	<input type="button" value="Save & Test"/>

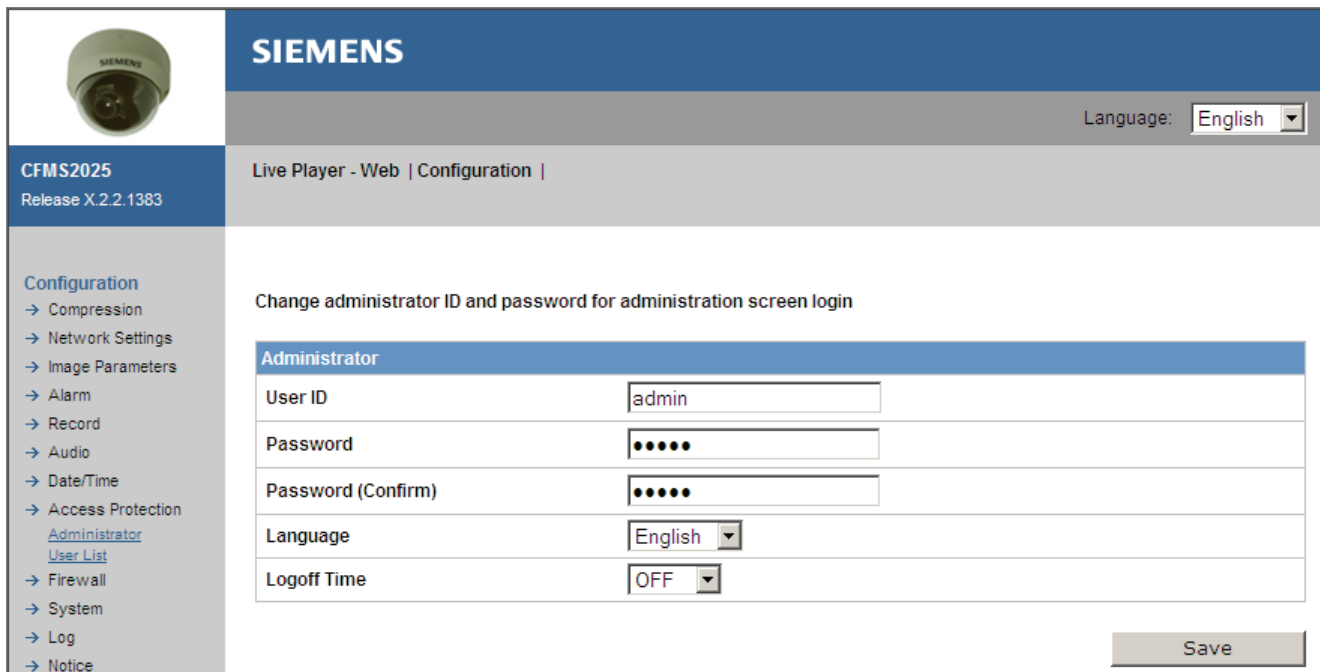
Daylight

Daylight saving	<input checked="" type="radio"/> ON <input type="radio"/> OFF
-----------------	--

- **Display**
Select "ON" to display the date/time on the screen. The position and color are set via the camera's on-screen menu.
- **Synchronization Mode**
 - **Manual:**
Enter the date and time.
 - **NTP:** For details contact your system admin.
You can also enable Network Time Protocol (NTP) via the NTP server. Enter a host name for the NTP server, select a time adjustment period, and click "Save and Test" to start testing the NTP function.
 - **Synchronization from PC:**
The system date/time can be synchronized via the PC settings.
- **Daylight**
Select "ON" to activate the daylight-saving function if you are in a daylight-saving time zone (effective for NTP mode only).

9.8 Access protection

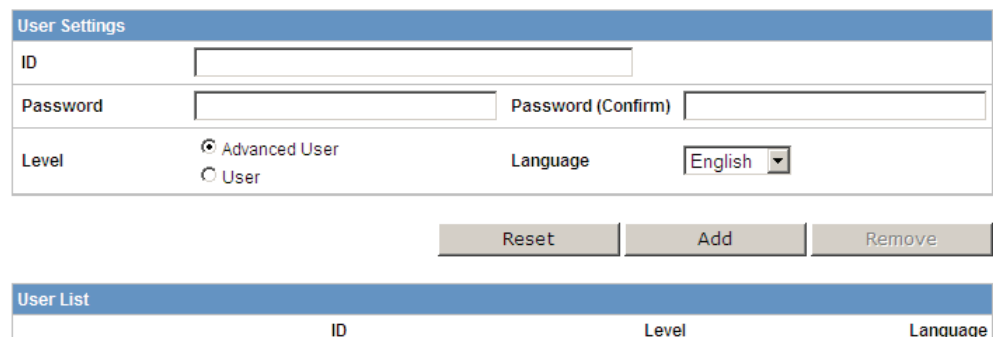
9.8.1 Administrator



- Administrator functions
Select "Administrator Functions" in the setting menu. You can set up the system password, user language and logoff time.
- Password
The default settings for system admin ID and password are as follows:
Admin ID: admin
Password: admin
You can create your own Admin ID and password in these fields
Language: English
You can select from 5 languages

9.8.2 User list

Change user ID and password for user screen login



ID	Level	Language
----	-------	----------

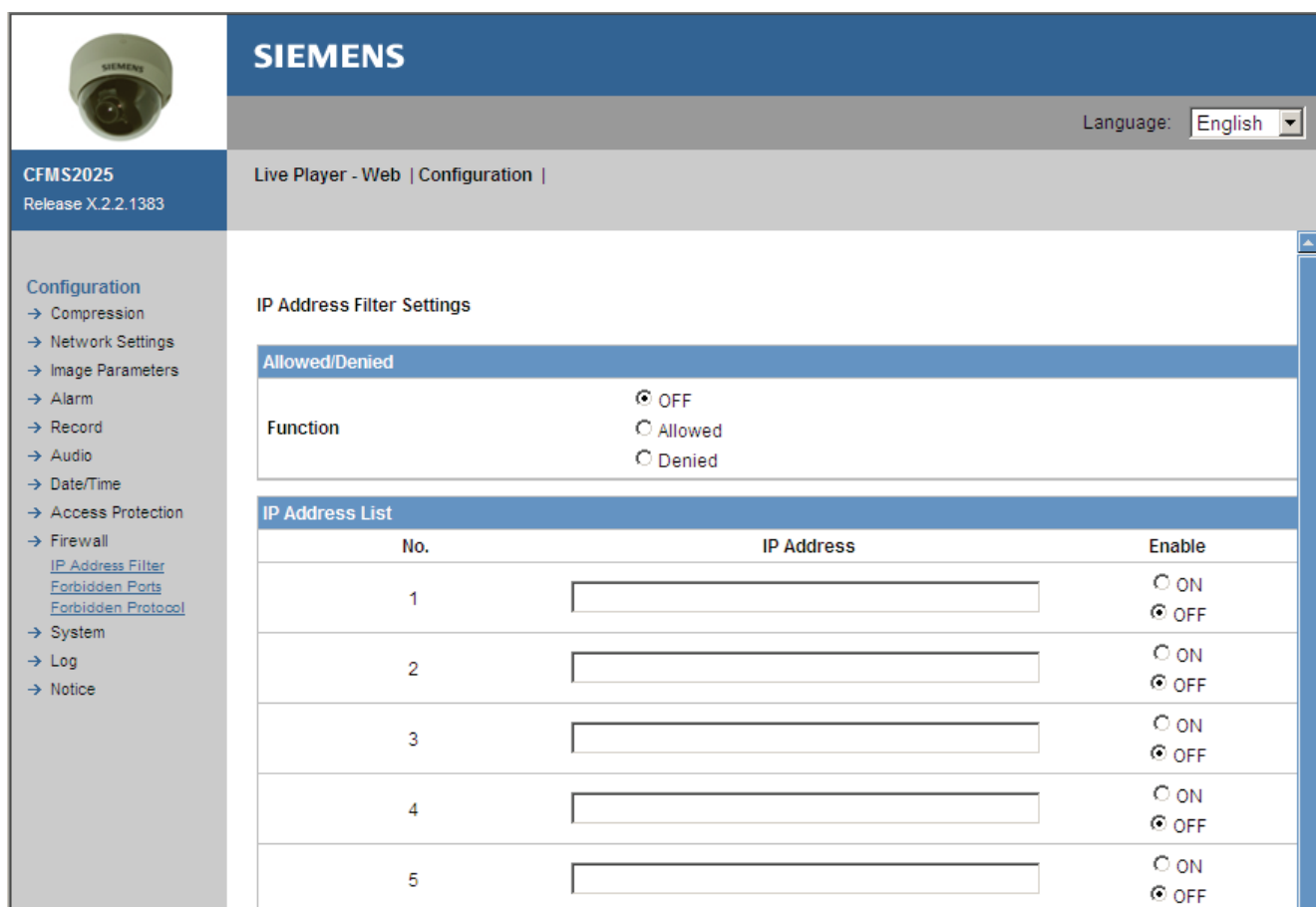
Besides the administrator, general users can access the camera once they have been assigned a user ID and password by the system administrator.

You can add users by assigning them individual IDs and passwords in the "User Settings" field and adding them to the user list.

User level:

- Advanced users can see the live picture and perform basic functions (e.g. PTZ control, etc.).
- Users can only view the live image; they have no authorization to perform any functions.

9.9 Firewall



The screenshot shows the Siemens CFMS2025 web interface for Firewall configuration. The left sidebar contains a navigation menu with options like Compression, Network Settings, Image Parameters, Alarm, Record, Audio, Date/Time, Access Protection, Firewall, IP Address Filter, Forbidden Ports, Forbidden Protocol, System, Log, and Notice. The main content area is titled 'IP Address Filter Settings' and includes a 'Function' section with radio buttons for OFF (selected), Allowed, and Denied. Below this is an 'IP Address List' table with 5 rows, each containing a number, an IP address field, and an 'Enable' section with radio buttons for ON and OFF (selected).

No.	IP Address	Enable
1	<input type="text"/>	<input type="radio"/> ON <input checked="" type="radio"/> OFF
2	<input type="text"/>	<input type="radio"/> ON <input checked="" type="radio"/> OFF
3	<input type="text"/>	<input type="radio"/> ON <input checked="" type="radio"/> OFF
4	<input type="text"/>	<input type="radio"/> ON <input checked="" type="radio"/> OFF
5	<input type="text"/>	<input type="radio"/> ON <input checked="" type="radio"/> OFF

9.9.1 IP Address filter

1. Enter the IP address(es) to be processed by the firewall system in the IP address field(s). Up to 10 addresses can be set.
2. Enable the IP address(es) in the list which are to pass the firewall filter by selecting "ON".
3. Select either "Allowed" or "Denied" or "OFF".
 - Allowed: The listed IP addresses will pass the firewall.
 - Denied: The listed IP addresses will be rejected by the firewall.

9.9.2 Forbidden ports

All the listed ports that enabled (set to "ON") will be rejected by the firewall.

Camera - Forbidden Ports Settings

Forbidden Ports			
No.	Port		Enable
1	<input type="text"/>	(1-65535)	<input type="radio"/> ON <input checked="" type="radio"/> OFF
2	<input type="text"/>	(1-65535)	<input type="radio"/> ON <input checked="" type="radio"/> OFF
3	<input type="text"/>	(1-65535)	<input type="radio"/> ON <input checked="" type="radio"/> OFF

9.9.3 Forbidden protocols

CMP or UDP protocols can be rejected by the firewall if assigned.

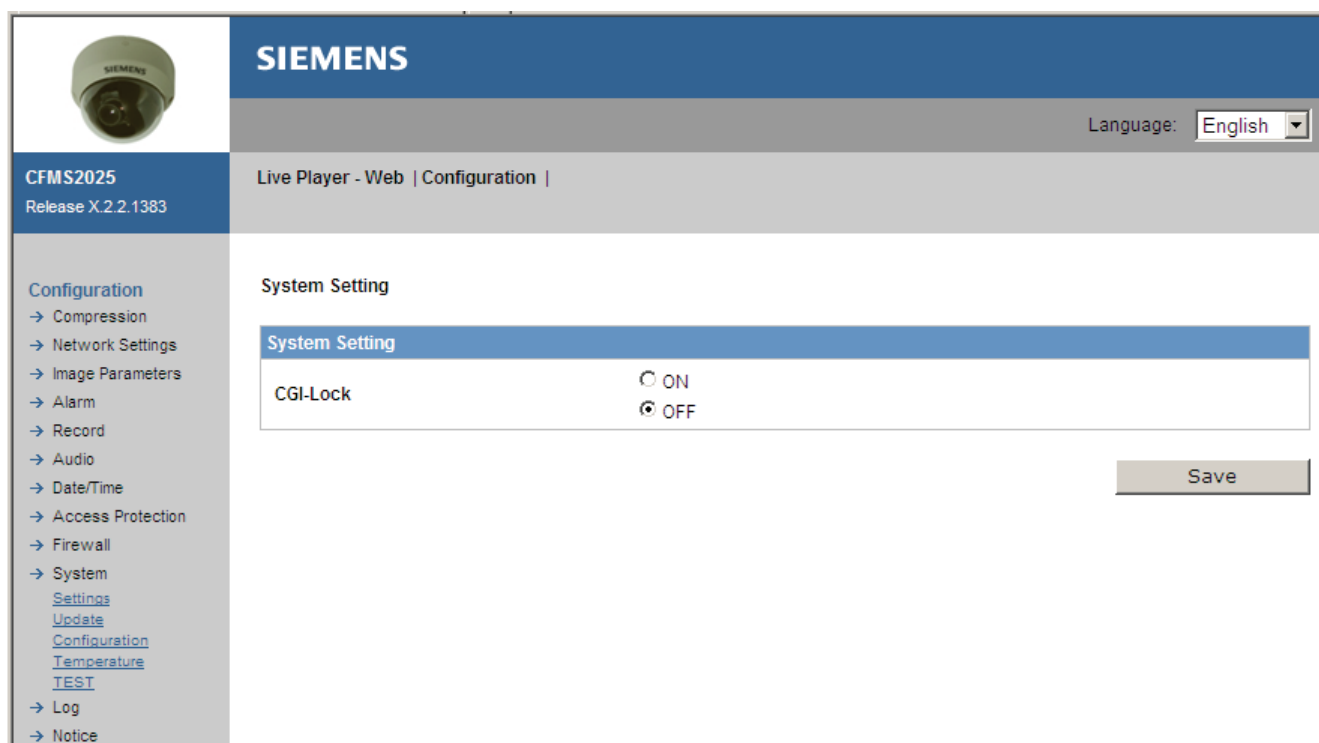
Camera - Forbidden Protocol Settings

Forbidden Protocol		
Forbid ICMP	<input type="radio"/> ON	<input checked="" type="radio"/> OFF
Forbid UDP	<input type="radio"/> ON	<input checked="" type="radio"/> OFF

9.10 System

9.10.1 Settings

CGI-Lock is a system security setting that is used to activate or deactivate the login data for the CGI-commands. If you select "ON", you always have to enter an ID and password for the web page. You can change everything using the cgi-commands. If "OFF" is selected, you will have no access.



9.10.2 Update

You can update the system firmware once the update file is available. It is the customer's responsibility to update the firmware. All camera motions will be shut down during the firmware update. Close all dialogs and screens before starting a firmware update. Never disconnect the power cable and the LAN cable during the firmware update process. Rebooting the camera after a firmware update may take approx. 15 minutes. After you finish a software update, please reboot your computer at first.

- Do not disconnect power during a SW update. Otherwise, it causes SW update failure and you have to send back your camera to Siemens maintenance.

Configuration

- Compression
- Network Settings
- Image Parameters
- Alarm
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- Audio
- Date/Time
- Access Protection
- Firewall
- System
 - [Settings](#)
 - [Update](#)
 - [Configuration](#)
 - [Temperature](#)
 - [TEST](#)
- Log
- Notice

Firmware Update

Firmware Update

Firmware:

Durchsuchen...

Current Version : x.2.2.1372

MCU Current Version : 13

Upload

Update firmware
at customer's responsibility.

Firmware updating requires about several minutes.
Carefully read the following.

9.10.3 Configuration

Configuration

- Compression
- Network Settings
- Image Parameters
- Alarm
- Record
- Audio
- Date/Time
- Access Protection
- Firewall
- System
 - [Settings](#)
 - [Update](#)
 - [Configuration](#)
 - [Temperature](#)
 - [TEST](#)
- Log
- Notice

Configuration Information

Import Configuration Settings

Uploads (transfers/updates) configuration settings saved in client computer to network cameras.

Configuration File:

Durchsuchen...

Import

Configuration information import takes several minutes.

Export Configuration Settings

Downloads (saves) configuration settings of network cameras to client computer.

Export

Set to Factory Default

Default

Camera is rebooted to make changes effective.

Network Camera Reboot

Reboot

Camera configuration information can be exported and saved to a personal computer. It can also be imported from the personal computer to network cameras.

- Import - Click on "Import" and select the configuration settings file to be imported to your network camera.
- Export - Click on "Export" and select the directory to save the file on your computer.
- Factory Default - Clicking on "Default" in the setup.



Basic IP camera network settings (e.g. IP address and camera name) will not be reset when a software reset is made. Also the export configuration settings and the settings for import and factory default.

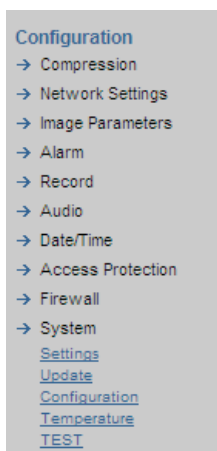
- Network Camera Reboot - When you click on "Reboot" the following message will pop up: "This will reboot the camera. Are you sure?". Click "OK" to reboot the network camera.

9.10.4 Temperature

There are options for displaying the temperature: Celsius and Fahrenheit. The current internal temperature of the camera is displayed. If the temperature exceeds the limit value, an e-mail will be sent depending on the temperature notification interval setting. If "0" is selected, the e-mail will be delivered only once.



When the temperature of the camera is too high, for example above 70°C , a warning message will pop up.



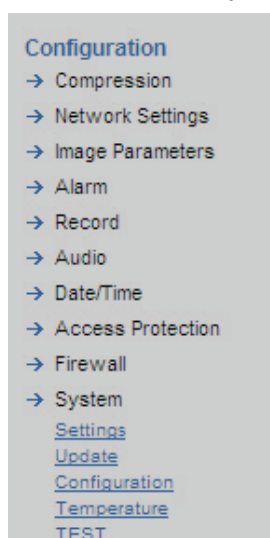
Camera - Temperature Settings and Display

Temperature Settings and Display	
Display Type	<input checked="" type="radio"/> C <input type="radio"/> F
Temperature	45°C
Temp. notification Interval	<input type="text" value="1"/> min

Save

9.10.5 Test

The status of the system can be displayed here.



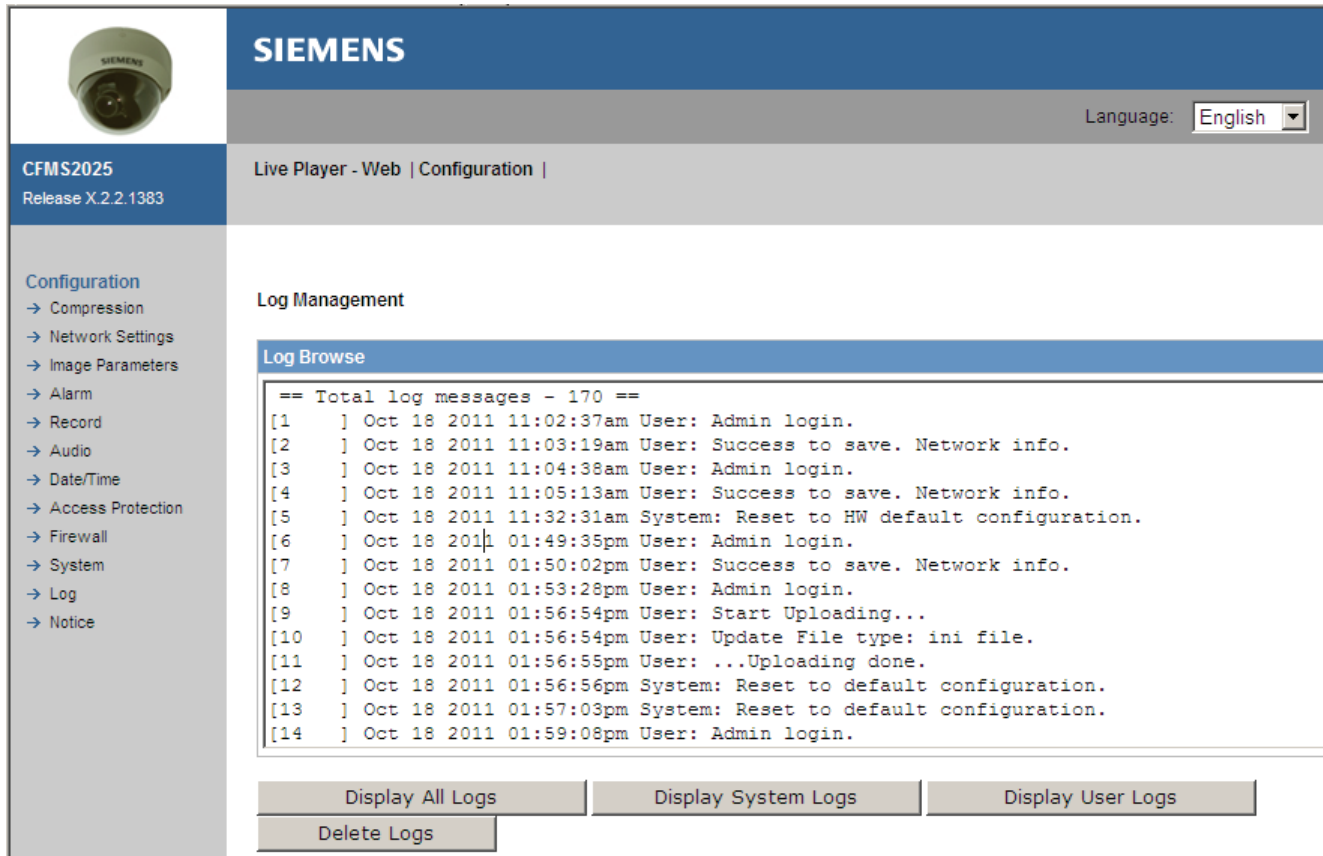
Test Html

Test Html		
SD Ready:	✓	Free: 0.10G
Memory Free:	16.47MB	
Stream 1:	✓	
Stream 2:	✓	
Stream 3:	✓	
Temperature:	✓	

9.11 Log

Event log

- Select the menu sequence Settings > Log.
By clicking the buttons "Display All Logs", "Display System Logs", "Display User Logs", "Delete logs" the corresponding logs will be displayed and can be processed.



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Log Management

Log Browse


```

== Total log messages - 170 ==
[1 ] Oct 18 2011 11:02:37am User: Admin login.
[2 ] Oct 18 2011 11:03:19am User: Success to save. Network info.
[3 ] Oct 18 2011 11:04:38am User: Admin login.
[4 ] Oct 18 2011 11:05:13am User: Success to save. Network info.
[5 ] Oct 18 2011 11:32:31am System: Reset to HW default configuration.
[6 ] Oct 18 2011 01:49:35pm User: Admin login.
[7 ] Oct 18 2011 01:50:02pm User: Success to save. Network info.
[8 ] Oct 18 2011 01:53:28pm User: Admin login.
[9 ] Oct 18 2011 01:56:54pm User: Start Uploading...
[10 ] Oct 18 2011 01:56:54pm User: Update File type: ini file.
[11 ] Oct 18 2011 01:56:55pm User: ...Uploading done.
[12 ] Oct 18 2011 01:56:56pm System: Reset to default configuration.
[13 ] Oct 18 2011 01:57:03pm System: Reset to default configuration.
[14 ] Oct 18 2011 01:59:08pm User: Admin login.
  
```

Display All Logs Display System Logs Display User Logs

Delete Logs

9.12 Notice

	<div>SIEMENS</div> <div>Language: English</div>
<div>CFMS2025</div> <div>Release X.2.2.1383</div>	<div>Live Player - Web Configuration </div>
<div>Configuration</div> <ul style="list-style-type: none"> → Compression → Network Settings → Image Parameters → Alarm → Record → Audio → Date/Time → Access Protection → Firewall → System → Log → Notice 	<div>Third Party Software Licenses</div> <p>The information in this document applies to Siemens MJPEG/MPEG4/H264 IP Camera CCMS2025/CFMS2025/CVMS2025-IR</p> <p>1. Software Licensed under the GNU General Public License</p> <p>This product includes software licensed under the GNU General Public License (GPL) Version 2.</p> <p>Specifically, the following software included in this product is subject to the GPL:</p> <p>-----</p>

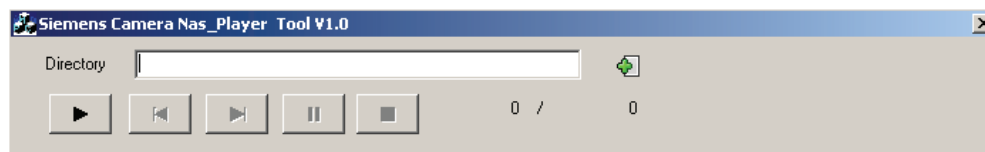
10 Utility program application

10.1 NAS player setup

The application for playing back NAS files can be found on the DVD that is included in the delivery.

▷ Prerequisite: NAS recording has been configured.

1. Click on the green cross button and select the path of the NAS file to be played back.
2. Click "Play"
3. Click "Stop"



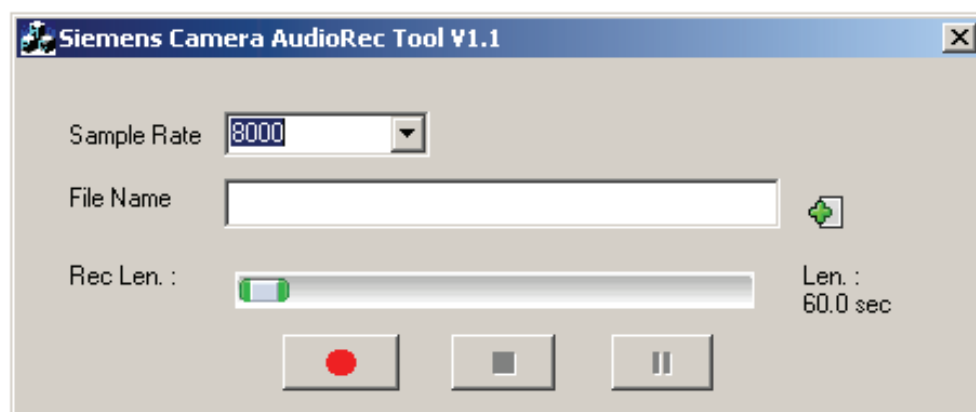
10.2 Audio recording setup

This application is found on the DVD that is included in the delivery. You can record a new voice file and upload it to the network camera. This application can generate alarm out events. After you finish audio record, please control alarm audio setting.

To record audio, proceed in the following manner:

▷ Prerequisite: Audio recording has been configured.

1. Click on the green cross button and select the path to which to save the *.wav file.
2. Make sure a microphone is installed before you start recording your voice.
3. Click on the red button and start recording your voice.
4. Click "Stop".



10.3 Firmware update setup

This application is found on the DVD that is included in the delivery. You can update multiple network cameras simultaneously.

To update firmware, proceed in the following manner:

- ▷ Prerequisite: The firmware update software has been installed .
1. Select the software version from the "Filter" drop-down list.
 2. Select the network camera you want to update. The upgrade tool supports the simultaneous firmware update of up to 100 network cameras.
 3. Click on "Browse..." and select the software version for the network camera.
 4. Click on "Upload" to start the firmware update.

Siemens ODIN-Camera Firmware Upgrade Tool V1.0

Filter:

No.	IP Address	FW Versio	Port	Name	MAC-Address
0001	192.168.12.34	x.2.2.1383	80	CFIS1425	-0:00:B6:70:0F:0A
0002	192.168.12.29	x.2.2.1342	80	CFIS1425	-5:44:F5:04:34:F0

Search
Select All
Delete

File Name: Browse... Upload

	IP Address	PORT	Progress	Status
1	<input type="text"/>	<input type="text"/>	0%	<input type="text"/>
2	<input type="text"/>	<input type="text"/>	0%	<input type="text"/>
3	<input type="text"/>	<input type="text"/>	0%	<input type="text"/>
4	<input type="text"/>	<input type="text"/>	0%	<input type="text"/>
5	<input type="text"/>	<input type="text"/>	0%	<input type="text"/>

Clear

Current FW version : X.2.2.984

11 Maintenance

- The camera is maintenance-free.
- There is a limitation of rewrites that is possible with the SD memory card. Replacing the SD memory card when performing periodic maintenance on the camera is recommended, at latest after 10,000 writing cycles.
- Small amounts of dirt or dust can be cleaned from the camera using a clean soft cloth. Do not touch the lens area.
- If the surface is touched accidentally use a soft cloth moistened with alcohol to clean it.
- Defective modules should be sent to the nearest Siemens office to be forwarded to the service centre.

12 Disposal



All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.

This crossed-out wheeled bin symbol on the product means the product is covered by the European Directive 2002/96/EC.

The correct disposal and separate collection of your old appliance will help prevent potential negative consequences for the environment and human health. It is a precondition for reuse and recycling of used electrical and electronic equipment. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

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